schultz451-1.rng

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AAX10243;
                                                                                                         Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes a novel enzymatic nucleic acid (ENA) having a harmmerhead motif (EM) comprising: (i) at least 5 ribose residues (ii) a 2.-(2-allyl modification at position 4 of the ENA; (iii) at least ten 2.-O-methyl modification at position 4 of the ENA; (iii) at least can inhibit collagenase and stromelysin production in the symovial ENA's membrane of joints for the treatment or prevention of arthritis, particularly osteoarthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance in a recipient to an alloantion of a donor. They can also he used for enhancing graft tolerance or for treating autoimmune disease, and for reating allergies and other inflammercry conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of stromelysin without introducing the non-specific effects upon gene
                                                                                                                                                                                                               Arthritic condition, graft tolerance, immune response; target; cleavage; hammerhead ribozyme; halfpin ribozyme; human; rabbit; mouse; collagenase; stromelysin; synovial membrane; joint; arthritis; osteoarthritis; rheumatoid arthritis; autoimmune disease; allergy; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Enzymatic nucleic acid molecules having a hammer-head motif - used for the treatment of arthritis, induction of graft tolerance or treatment of auto-immune diseases.
                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         f, Draper K, Pavco P;
Wincott F, Matulic-Adamic J;
Burgin A;
                              .
0
         Length 15;
        Score 11.8; DB 1; Length 1
Pred. No. 5.1e+02;
; Mismatches 2; Indels
                                                                                                                                                                                          Human CD40 hammerhead ribozyme target SEQ ID NO:3219.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , Jarvis T,
Usman N, Wit
Modak A, Bu
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                            3,
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94US-00363253.
94US-00363254.
95US-00426124.
95US-00434509.
95US-000951P.
                                                                                                                           AAX66587 standard; RNA; 15 BP
         0.5%;
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95US-00541365
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                                                  TGTGCCTACCCCAGA 850
                                                                     ugueccuacceaaa 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RIBO-) RIBOZYME PHARM INC.
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Thompson JD,
                                                                                                                                                                     (first entry)
                            10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1996-300653/30.
     Query Match
Best Local Similarity
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Mcswiggen J,
Karpeisky A,
                                                                                                                                                                                                                                                            diagnosis; ss
                                                                                                                                                                     20-JUL-1999
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17-FEB-1995;
20-APR-1995;
02-MAY-1995;
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23-DEC-1994;
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                                                  836
                                                                                                                                                AAX66587;
                                                                                                       RESULT 832
                                                                                                                                                                                                                                                                                Ношон
                           Matches
                                                                                                                  AAX66587
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genome (represented in AXX10269-XI2937). These primers used in the human genome (represented in AXX10269-XI2937). These primers can be used in a genome (represented in AXX10269-XI2937). These primers can be used in a method for determining polymorphic forms in an individual for use in e.g. forensics, patermity testing or for phenotypic typing for diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Addrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary hardomer, osteogenesis imperfecta, acute intermittent porphyria, autoimmune diseases, inflammation, cancer, diseases of the nervous syndrome, osteogenesis imperfecta, acute intermittent porphyria, autoimmune diseases, inflammation, cancer, diseases of the nervous syndrome, interprity, appearance (e.g. baldness, obesity), strength, speed, endurance fertility, and susceptibility or receptivity to particular drugs or the rapeutic treatments. The isolated polymorphic nucleic acid segments can also be used to produce medicaments for the treatment or prophylaxis of such diseases
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expression which accompany treatment with retinoids and dexamethasone. The concentration of ilbozyme required to affect a therapeutic treatme is lower than that required of antisense molecules, and is highly specific. The present sequence is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Polymorphism, biallelic, human; forensic; paternity testing; disease; detection; phenotypic typing; characteristic; infection; hereditary; autoimmune disease; cancer; inflammation; drug; therapy; medicament; treatment; marker; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated nucleic acid segments from the human genome - used for determining polymorphic forms for use in e.g. forensics, paternity testing or phenotypic typing for disease.
                                                                                                                                                                                                                                                                                                                                                                                        ..
                                                                                                                                                                                                                                                                                                              Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human biallelic polymorphic marker downstream primer #549.
                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                 Sequence 15 BP; 4 A; 7 C; 1 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                          0.5%; Score 11.8; DB 1; 66.7%; Pred. No. 5.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                    3; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  743 ACACCGTGTGCACCT 757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97WO-US020313
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                                                                                                                                                                                                                                                                                                                                                                                        10; Conservative
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Best Local Similarity
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                                                                                                                                                       present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9820165-A2
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Gaps

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Indels

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Mismatches

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Conservative

13;

Matches

933 CCTCCTCTTCATTGG 947

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Gaps

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Indels

Length 15;

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AAV48709-886 represent antisense oligonuclectides directed against the ErbB-2 gene. Of these, only oligonuclectides AAV48709-91 resulted in significant redcution in ErbB-2 protein expression, while significant redcution in ErbB-2 protein expression, while contain a redcution in ErbB-2.

Significant redcution in ErbB-2 protein expression, while exemplify the invention. The specification describes oligonuclectides that can each form three hydrogen bonds to cytosine; do not contain four consecutive nucleotides able to form three H-bonds each to four consecutive cytosines; do not contain two sequences of three consecutive consecutive cytosines; do not contain two sequences of three consecutive cytosines; and the ratio between residues able to form two H-bonds each (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The cytosines, and the ratio between residues able to form two H-bonds each (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The consecutions are used to modulate expression of genes, particularly the genes for p53, ErB-2, jumB, jumb, TGF-beta 1 or beta 2 to control proliferation of primary cell cultures (e.g. bone marrow stem, liver or kidney cells, osteochasts, osteochasts and/or keratinocytes). The cligonuclectides can also be used to analyse function of proteins (by altering their expression or activity) and therapeutically, e.g. in cases of cancer or (targeting TGF) for stimulating the immune system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Preparation of antisense oligo:nucleotide(s) which lack long runs of consecutive quancisine or inceine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapeutically or to modulate growth of cells in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ErbB-2; antisense oligonucleotide; modulate; gene expression; ss.
                                                        . Match 0.5%; Score 11.8; DB 1; Local Similarity 86.7%; Pred. No. 5.1e+02; les 13; Conservative 0; Mismatches 2;
                    Sequence 15 BP; 1 A; 3 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 2 A; 6 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 11.8; DB 1;
Pred. No. 5.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                           ErbB-2 gene antisense oligonucleotide ErbB-2-26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 10; Fig 6a; 286pp; English.
                                                                                                                                                                                                                                                                                              AAV48734 standard; DNA; 15 BP.
                                                                                                                                            1195 GTGGCACCACCTAT 1209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Brysch W;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.5%;
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-JAN-1997;
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                                                               Query Match
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                                                                                    Best Loca
Matches
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differentially expressed in colorectal cancer, in pancreatic cancer, or differentially expressed in colorectal cancer, in pancreatic cancer, or in both. The tag sequences can be used to identify genes by matching the tag to a gen data base member, or by using the tag sequences as probes to isolate unidentified genes from cDNA libraries. The tag sequences can also be used in a method for diagnosing colon or pancreatic cancer in a sample euspected of being neoplastic. The method comprises comparing the level of at least one transcript in a first sample of a tissue to a being neoplastic and the second sample is a colonic tissue suspected of being neoplastic and the second sample is a normal human colonic tissue. The transcript is identified by a tag selected from AAX30947-31815. The methods of the invention can be used in the diagnosis, prognosis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Use of isolated gene transcripts - useful for developing products for the diagnosis, prognosis and treatment of cancers, particularly colon and pancreatic cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                colorectal cancer; pancreatic cancer; colon cancer; ognosis; treatment; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; ive 0; Mismatches 2; Indels
                                                                                                                                                                              Tag sequence of a transcript increased in colorectal cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 4 A; 4 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 2; Page 34; 120pp; English.
                                                                                                                                                                                                                               diagnosis; prognosis; treatment;
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                                                                               BP.
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ccrccrcrrcagage 15
                                                                               AAX31190 standard; DNA; 15
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                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  treatment of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                 Tag sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vogelstein B,
                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                20-MAY-1998;
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AC AAV9
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Length 15;

defibriotide; polyanion salt; HIV; protozoan infection; schistosoma; Schistocerca Leishmania; Trypanasoma; fungus infection; Previncysties carinil; malaria; viral infection; genetic disease; buchenne's muscular dystrophy; Down's syndrome; degenerative disease; neoplasia; cancer; skin condition; drug resistance; ss.

Human immunodeficiency virus.

Synthetic.

WO9848843-A1.

05-NOV-1998

98WO-US008357. 97US-00848013.

28-APR-1998; 28-APR-1997; (BURC/) BURCOGLU A.

region and cellular regulatory factor oligonucleotide.

BP.

DNA; 15

AAV99282 standard;

(first entry)

09-MAR-1999

AAV99282;

HIV homology

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RESULT 837
                   AAV99282/
                                 A method has been developed for the identification of a nucleic acid capable of modulating a process in a biological system. The method capable of modulating a process in a biological system. The method comprises: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (SBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC a random sequence, and a catalytic admin (CD); and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules with condounclease activity and catalytic activity, from the present invention, are used to modulate gene expression in plant and mammalian cells and to cleave target nucleic acid, particularly for treating systemic diseases caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic ascites and infection. They may also be used to detect genetic drift and mutations in diseased cells and to determine c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate expression of the Raf gene, are used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or consisting activity that modulate expression of c-raf. Introduction of sugar/phosphate modifications increases stability against nuclease and activity. AAV99922 to AAV93877 repression of a Raf gene
                                                      Human; c-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme; target; substrate; catalyst; modulation; expression; Raf gene; delivery; screening; identification; synthesis; deprotection; purification; cancer; inflammation; psoriasis; non-hepatic ascites; infection; genetic drift; restenosis; rheumatoid arthritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside triphosphates used as antiviral agents and synthons.
                              Target sequence with sequence homology to c-raf and A-raf position 2127
                                                                                                                                                                                                                                                                                                                                                                                                                                  Burgin A;
                                                                                                                                                                                                                                                                                                                                                                                                                 Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K,
Parry T, Beigelman L, Mcswiggen JA, Karpeisky A,
Thompson J, Workman CT, Beaudry A, Sweedler D;
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97US-0049002P.
97US-00517U8P.
97US-0061321P.
97US-0061324P.
97US-006486EP.
                                                                                                                                                                                                                              98WO-US009249
                                                                                                                                                                                                                                                                                                                                                                                        (RIBO-) RIBOZYME PHARM INC.
18-FEB-1999 (first entry)
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                                                                                                                                             Homo sapiens.
                                                                                                                                                                        WO9850530-A2
                                                                                                                                                                                                                              05-MAY-1998;
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05-NOV-1997;
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Oligonucleotides AAV992B1-83 represent modified defibriotide sequences containing a Human immunodeficiency virus (HIV) homology region and a cellular regulatory factor. Defibriotide is a polyanion salt of a cellular regulatory factor. Defibriotide is a polyanion salt of a deoxyribonucleic acid obtained from mammalian tissue. The products can be used for treating disease such as infection, schistosoma infection, preunosoma infection e.g. Candida tropicalis and japonicum, Schistocerca Leishmania infection, Trypansoma infection e.g. Candida tropicalis and candida Ablacians, Aapsergillus infection, Pneumocystis carinii infection, candida Ablacians, Appergillus infection, Pneumocystis carinii infection, candida Ablacians, garam negative bacterial infection, demertic diseases e.g. Duchenne's muscular dystrophy and convins infection, genetic diseases e.g. Duchenne's mystrophy and Down's syndrome, degenerative diseases e.g. Duchenne's mystrophy and convins infection, genetic diseases e.g. Duchenne's mystrophy and convins infection and radiation damage, neoplasia, e.g. lympho-proliferative proximal muscle weakness, Leber's syndrome, retinitis pigmentosa, actaxia, selzures, proximal muscle weakness, Leber's sancer, neurobathy, optic neuroitis, and radiation damage; neoplasia, e.g. lympho-proliferative colon cancer; and skin disease, pancreatic cancer, lung cancer, and colon cancer; seborrheic dermatitis, psoriasis, Reiter's syndrome, insect colon ancer; and skin diseases, e.g. molluscum contegiosum, bacillary cadition a drug resistance can be treated via administering the nucleic cancin components of elibrotide and the variants in combination with the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                     Use of defibrotide nucleic acid components - for treating e.g. infectious diseases, genetic diseases, degenerative diseases, DNA damage, neoplasia and skin disease, particularly HIV infection.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 BP; 6 A; 6 C; 3 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                             Claim 21; Page 80; 96pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e.g. a protease inhibitor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               905
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                                                                                  WPI; 1999-034643/03.
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Best Local Similarity
Matches 13; Conserv
Burcoqlu A;
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Gaps

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0.5%; Score 11.8; DB 1; Length 15; 80.0%; Pred. No. 5.1e+02; ive 1; Mismatches 2; Indels

Query Match 0.5 Best Local Similarity 80.0 Matches 12; Conservative

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(first entry)
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                                                                                                                                                                                                                                                                                              WPI; 2000-062023/05.
                                                                                                    Hepatitis C virus
                                                                                                                          WO9955847-A2.
                                                                                                                                                                     26-APR-1999;
             28-MAR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-MAR-2000
                                                                                                                                                                                            27-APR-1998;
                                                                                                                                                                                                      18-SEP-1998;
25-FEB-1999;
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                                                                                                                                                04-NOV-1999.
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0
                                                                                                                                             Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage; cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer; autoimmune disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the Hepatitis C virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence as screened for optimal ribozyme target sites using a computer folding algorithm and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their activities optimised by either varying the length of the binding arms or by modification to prevent degradation by viral replication, and are used to treat diseases associated with hepaticis C virus (HCV) infection, e.g. cirrhosis, liver failure and hepatoccellular carcinoma. The ribozymes may be used in combination with interferon to treat HCV infection, other infectious diseases, autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                      Novel ribozymes for the treatment of diseases and conditions related to hepatitis C infection.
                                                                                                                        Substrate for HH ribozyme HCV-5930 which cleaves HCV RNA at nt. 5930.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence represents the preferred target sequence of an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ٥;
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                                                                                                                                                                                                                                                                                                                                                              Blatt L, Mcswiggen JA, Roberts E, Pavco PA, Macejak D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 1 A; 4 C; 5 G; 0 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 60; 123pp; English
                                                       AAZ62704 standard; RNA; 15 BP
                                                                                                                                                                                                                                                                                98US-0083217P.
98US-0100842P.
99US-00257608.
99US-00274553.
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                                                                                                                                                                                                                                                            99WO-US009027
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                                                                                                                                                                                                                                                                                                                                      (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15 AAGCCACCAGTGCAC 1
                                                                                                 28-MAR-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13; Conservative
15 GCTGTTGGCTCTGGT
                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-062023/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
                                                                                                                                                                                          Hepatitis C virus.
                                                                                                                                                                                                                                                                                27-APR-1998;
18-SEP-1998;
25-FEB-1999;
23-MAR-1999;
                                                                                                                                                                                                                WO9955847-A2
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                                                                            AAZ62704;
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                                RESULT 838
                                             AAZ62704/c
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The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the Hepatitis C virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme carget sites using a computer folding algorithm and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified without severe synthesised to target these sites and their activities optimised by either varying the target these sites and their activities optimised by either varying the carget the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and hepatitis carcinoma. The ribozymes may be used in combination with interferon to treat HCV infection, other infectious diseases, autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cleavage;
cancer;
                                                                         Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage;
cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;
autoimmune disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel ribozymes for the treatment of diseases and conditions related to hepatitis {\tt C} infection.
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Substrate for hammerhead ribozyme which cleaves HCV RNA at nt. 5036.
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cirrhosis; liver failure; hepatocellular carcinoma; interferon;
autoimmune disease; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Macejak
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98US-0100842P.
99US-00257608.
99US-00274553.
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AAZ62498 standard; RNA; 15
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Nomura H,
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ID AAZ9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cleavage;
                                                                                                                                                                                                         Novel ribozymes for the treatment of diseases and conditions related to hepatitis C infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Substrate for hammerhead ribozyme which cleaves HCV RNA at nt. 4131.
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cirrhosis; liver failure; hepatocellular carcinoma; interferon;
autoimmune disease; ss.
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86.7%; Pred. No. 5.1e+02;
ative 0; Mismatches 2; Indels
                                                                                                                                                                  Macejak D;
                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 1 A; 5 C; 6 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                 Pavco PA,
                                                                                                                                                                  Roberts E,
                                                                                                                                                                                                                                       Claim 1; Page 53; 123pp; English.
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                                                                                         98US-0083217P.
98US-0100842P.
99US-00257608.
99US-00274553.
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                                                                      99WO-US009027
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                                                                                                                                             (RIBO-) RIBOZYME PHARM INC
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Best Local Similarity 86.74
Matches 13, Conservative
                                                                                                                                                                  Mcswiggen JA,
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           Hepatitis C virus
                                                                                         27-APR-1998;
18-SEP-1998;
25-FEB-1999;
23-MAR-1999;
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                                                                      26-APR-1999;
                              WO9955847-A2
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                                                  04-NOV-1999
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                                                                                                                                                                  Blatt L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              841
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The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves can the pagatists of virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme target sites using a computer folding algorithm and regions of the mANA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their activities optimised by either varying the target these sites and their activities optimised by either varying the carget the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with Hepatitis C virus (HCV) infection, e.g. cirrhosts, liver failure and hepatocellular carcinoma. The ribozymes may be used in combination with interferon to treat HCV infection, other infectious diseases, autoimmune
                                                                                                                                                                                                                                                                                                                                               Novel ribozymes for the treatment of diseases and conditions related to hepatitis C infection.
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                                                                                                                                                                                                                            Macejak
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 0 A; 2 C; 7 G; 0 T; 6 U; 0 Other;
                                                                                                                                                                                                                            Blatt L, Mcswiggen JA, Roberts E, Pavco PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CHUS ) CHUGAI RES INST MOLECULAR MEDICINE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Page 78; 123pp; English.
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                        98US-0100842P.
99US-00257608.
99US-00274553.
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98JP-00297409
98US-0083217P
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                                                                                                                                                                (RIBO-) RIBOZYME PHARM INC
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nes 13; Conservative
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25-FEB-1999;
23-MAR-1999;
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19-OCT-1998;
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The invention relates to the isolation of sequences encoding human haemopoletin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGTWNNTGGAGT encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences AAZ59258-Z59300 and AAZ9016-290925 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hemopoletin receptor protein family NR8 used for diagnosis of blood formation disorders.
0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; ive 0; Mismatches 2; Indels
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98JP-00297409.
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13; Conserva
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Matches 13; Conserv
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                                                                                                      The invention relates to the isolation of sequences encoding human haemopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGYNNNTGGAGY encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences AAZ59258-Z59300 and AAZ90816-Z99925 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are used for the treatment of such disorders
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  Hemopoletin receptor protein family NR8 used for diagnosis of blood formation disorders.
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                                                                                                                                                                                                                                                                                                                                                                           0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred, No. 5.1e+02; tive 0; Mismatches 2; Indels
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                                                                    Example 1; Page 43; 176pp; Japanese
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98JP-00297409.
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The invention relates to the isolation of sequences encoding human haemopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGATNNYTGGAGY encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences AAZ59258-Z59300 and AAZ30816-S0925 sepresent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are
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86.7%; Pred. No. 5.1e+02;
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(CHUS ) CHUGAI RES INST MOLECULAR MEDICINE INC.
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                                                                                                                                          formation disorders
                                         Nomura H, Maeda M;
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86.7%; Pred. No. 5.1e+02;
tive 0; Mismatches 2; Indels
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                                                             Haemopoietin receptor family; NR8; antibody; diagnosis;
                                                                                 blood formation disorder; fusion protein; probe; ss
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                        Human NR8 gene probe #21
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RESULT 848

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AAZ9089

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Neocarzinostatin apoprotein synthetic gene useful as a chemotherapy agent
for acute leukemia, bladder cancer and pancreatic cancer.
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                                                                                                                                  Neocarzinostatin; NCS; apoprotein; apoNCS; chemotherapy; acute leukemia; bladder cancer; pancreatic cancer ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C-1027 biosynthesis gene cluster; apoprotein; chromophore;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.18+02; tive 0; Mismatches 2; Indels
                                                                                                       Neocarzinostatin apoprotein DNA fragment SEQ ID NO: 17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C-1027 gene cluster reverse PCR primer for ORF -6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Seguence 15 BP; 4 A; 4 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                               (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 11; 12pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP.
 AAA71517 standard; DNA; 15 BP.
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                                                                      (first entry)
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Best Local Similarity
Matche's 13; Conservat
                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-501188/45.
                                                                                                                                                                                                                                  JP2000175687-A.
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                                                                                                                                                                                                                                                                                                          16-DEC-1998;
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Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are used for the treatment of such disorders
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                                                                                                       0.5%; Score 11.8; DB 1; Length 15;
86.7%; Pred. No. 5.1e+02;
tive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 BP; 3 A; 1 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hemopoietin receptor protein family NR8 used for formation disorders.
                                                                      Sequence 15 BP; 3 A; 1 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (CHUS ) CHUGAI RES INST MOLECULAR MEDICINE INC.
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                                                                                                                                                                                                                                                                                                          BP
                                                                                                                                                                                821 TGGAGTGCACGAAGT 835
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98JP-00297409
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                                                                                                                                                                                                                                                                                                                                                                                                                    Human NR8 gene probe #123
                                                                                                                        Local Similarity 86.7
Les 13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-OCT-1998;
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RESULT 849 AAA71517/c

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Matches

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Gaps

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Edmondson SR;
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                                                                                                                                                                                                                                       BP.
                                                                                                                                                  1131 CTTCACCTCCAGCTC 1145
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                                                                                                                                                                                                                                                                                                                IGF-I oligonucleotide #3595.
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                                                                                                                                                                                                                                       AAF52635 standard; DNA; 15
                                                                                                                                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inflammation.
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                                                                                                                                                                                                                                                                                        30-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present PCR primer was used to detect a polymorphism in the human 3-hydroxy-3-methylglutaryl-coenzyme A (HMG-COA) reductase gene. The polymorphism is present in the promoter region, exon 15, introns 2, 5, 15 or 18. HMG-COA reductase polymorphisms are useful as genetic markers in linkage studies. Detection of the presence of the polymorphisms is useful for assessing the pharmacogenetics of therapeutic compounds in the treatment of HMG-COA reductase mediated diseases. The polymorphisms are
                                                                                                                       The present invention is concerned with the elucidation of the gene cluster from Streptomyces globisporus which regulates enediyne C-1027 synthesis. Enediyne C-1027 is an antibiotic, consisting of an apoprotein and a non-peptidic chromophore, which causes damage to DNA. The primers AAA63353-A63451 were used to isolate the open reading frames which used to produce the protein and to identify antagonists, both of which can be used in the treatment of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel polymorphisms in human 3-hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) gene useful for diagnosis and treatment of HMG-CoA reductase-mediated diseases such as dyslipidemia and other cardiovascular diseases
                                               Isolated nucleic acid comprising a nucleic acid encoding any of C-1027 open reading frames (ORFs) -7 to 42, excluding ORF 9 (cagA), useful for the production of enediyne C-1027 antitumor antibiotics.
                                                                                                                                                                                                                                                                                          Gaps
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HMG-COA reductase gene; genetic marker; cardiovascular disease;
myocardial infarction; stroke; PCR primer; ss.
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                                                                                                                                                                                                                                                              0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; ative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Primer for a polymorphism in human HMG-CoA reductase gene.
                                                                                                                                                                                                                                       Sequence 15 BP; 2 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
 Standage
                                                                                                 Disclosure; Page 16; 160pp; English
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Christenson SD,
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                                                                                                                                                                                                                                                                                                               1002 GAAATCGACACCTGA 1016
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                                                                                                                                                                                                                                                                                                                                    GACATCGACAGCTGA 1
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Best Local Similarity 66,7%
Matches 13, Conservative
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                       WPI; 2000-465947/40.
 Liu W,
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AAF24639/c
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, oligonuclectide which can be used to design the antisense an oligonuclectide which can be used to design the antisense of psoriasis, cliptures, pityriasis, ruba, pliaris, serborrhoea, keloids, keratosis, chthyosis, pityriasis, ruba, pliaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hopping such as a neovascular condition of the retina, brain or skin, growth factor-mediated mallgamancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antisense therapy, antiproliferative, antiinflammatory; antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor, IGF-1; pityriasis, IGF binding protein, IGFBP-2, IGFBP3; inflammation, psoriasis; pilaris, growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, keatoosis, neoplasia; scleroderma, wart; skin cancer; sclerotic disease; hyperneovascular condition, hyperplasia, kidney disease; neovascular condition, retina, ss.
useful for diagnosis of HMG-COA reductase mediated diseases such as dyslipidemia and other cardiovascular diseases such as myocardial infarction and stroke. HMG-COA reductase antagonist drugs are used to treat dyslipidemia and other cardiovascular diseases such as myocardial infarction and stroke
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schultz451-1.rng

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                                                            . Match 0.5%; Score 11.8; DB 1; Length 15; Local Similarity 86.7%; Pred. No. 5.1e+02; les 13; Conservative 0; Mismatches 2; Indels
                                U; 0 Other;
                                Sequence 15 BP; 4 A; 3 C; 5 G; 3 T; 0
or any other hyperplasia
                                                                                                                                1219 GACCCCATCCTTGCG 1233
                                                                                                                                                               15 GACTCCATCCTTGAG 1
                                                                Query Match
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Gaps

RESULT 853

AAF50568 ID AAF50568 standard; DNA; 15 BP.

AAF50568;

30-MAR-2001 (first entry)

:GF-I oligonucleotide #1528

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding proctein, IGFBP-2; IGFBP3; inflammation, psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, keratosis; neophasia; scleroderma, wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplama, kidney disease; neobascular condition; hyperplama; ss.

Homo sapiens

WO200078341-A1

21-JUN-2000; 2000WO-AU000693

99US-0140345P 21-JUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Wraight CJ, Werther GA,

WPI; 2001-041421/05

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 8; Page 70; 201pp; English

The present invention relates to a method for ameliorating the effects of antisense oligomucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBB]-2 or IGFBB], which is capable inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, oligomucleotide which can be used to design the antisense oligomucleotide which can be used to design the antisense oligomucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, inchipyosis, pityriasis, pitaris, serborrhoea, keloids, keratosis, hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood ressels or any other hyperplasia

0 Other; 0 U; Sequence 15 BP; 3 A; 9 C; 0 G; 3 T;

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                     Gaps
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  Length 15;
0.5%; Score 11.8; DB 1;
86.7%; Pred. No. 5.1e+02;
ative 0; Mismatches 2;
                                                                                                              BP.
                                         1132 TTCACCTCCAGCTCC 1146
                                                           Treactreacected
                                                                                                                                                                         IGF-I oligonucleotide #4931
                                                                                                              AAF53971 standard; DNA; 15
                                                                                                                                                     (first entry)
  Query Match 0.5
Best Local Similarity 86.7
Matches 13; Conservative
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                                                                                                                                  AAF53971;
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                                                                                                     AAF53971,
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WO200078341-A1. 28-DEC-2000.

Homo sapiens.

21-JUN-2000; 2000WO-AU000693.

21-JUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Werther GA, Wraight CJ,

WPI; 2001-041421/05

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 8; Page 93; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, or inhibiting or reducing growth factor mediated cell proliferation, or inhibiting or reducing growth factor mediated cell proliferation, or information and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4151 and AAF4153-PAS161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborthea, keloids, keratosis, chopsissis, scleroderma, warts, benign growths, cancers of the skin, a neoplasias, scleroderma, warts, benign growths, cancers of the skin, a brain or skin, growth factor-mediated malignandses, other sclerotic brain or skin, growth factor-mediated malignandses, other sclerotic vessels or any other hyperproliferation of the inside of blood vessels or any other hyperplasia

Sequence 15 BP; 4 A; 3 C; 7 G; 1 T; 0 U; 0 Other;

Gaps ; 0 0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; ive 0; Mismatches 2; Indels Conservative Query Match Best Local Similarity Matches 13; Conserv

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AAF46517 standard;

RESULT 856 AAF4651 IGFBP2 oligonucleotide #1356.

(first entry)

30-MAR-2001

AAF46517;

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The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]. receptor, IGF binding protein [IGFBP]-2 or IGFBB3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a prain or skin, growth factor-mediated malignancies, other sclerotic brain or skin, growth factor-mediated malignancies, other sclerotic
                                                                                                                                                                                                                                                                                                         Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding protein, IGFB-2; IGFBP3; inflammation, psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, keratosis, neoplasia; scleroderma, wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplama; kidney disease; neoblation of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ch 0.5%; Score 11.8; DB 1; Length 15; 1 Similarity 86.7%; Pred. No. 5.18+02; 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 3 A; 8 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wraight CJ, Werther GA, Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 8; Page 63; 201pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          vessels or any other hyperplasia
                                                                                                                                              AAF49377 standard; DNA; 15 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99US-0140345P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-JUN-2000; 2000WO-AU000693.
                                                                                                                                                                                                                                                                        IGF-I oligonucleotide #337
                                                                                                                                                                                                                              30-MAR-2001 (first entry)
  GIGCCCAGITCCACC
                                        15 GrérécaGricécee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-041421/05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-JUN-1999;
                                                                                                                                                                                        AAF49377;
1117
                                                                                                                          AAF49377
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticense oligonucleotide, (for Insulin-like Growth Factor IngPl-1 creeptor. IGF binding protein [IGFP]-2 or IGFPP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense of postiasis, F45161). The method is useful for ameliorating the effects of psoriasis, nothyosis, pityriasis, ruba, planis, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, chain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood creating the second condition of the inside of blood constants.
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                                                                                                                                Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, stin discorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding proctein, IGFB-2; IGFBP3; inflammation, psoriasis; pilaris, growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia, kidney disease; neobascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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0
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86.7%; Pred. No. 5.1e+02;
ve 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 1 A; 0 C; 11 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wraight CJ, Werther GA, Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 6; Page 42; 201pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           99US-0140345P.
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ID AAF46761 standard; DNA; 15
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Best Local Similarity 86.7
Matches 13, Conservative
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                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inflammation.
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Gaps . 0

1249 GACCCCATCCCCAAC 1263

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Local Similarity

Query Match

Best Loca Matches

1 GACCICITCCCCAAC 15

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid; skin disorder, insulin-like Growth Factor I receptor; IGF-1, pityriasis; IGF binding protein, IGFBP-2, IGFBP3, inflammation, psoriasis; pilaris; growth factor mediated cell proliferation, ichthyosis; serborrhoea; ruba, keratosis, neoplasia; scleroderma, wart, skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia, kidney disease; neobascular condition; hyperplasia, kidney disease;

IGF-I oligonucleotide #338.

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleoride, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, or contex disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the artisense oligonucleotide which can be used to design the artisense oligonucleotide is useful for ameliorating the effects of psoriasis, chthyosis, pityriasis, rubra, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
                                                                                                                                Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin discorder, Insulin-like Growth Factor. I receptor; IGF-1, pityriasis, IGF binding proctein, IGFBP-2, IGFBP3, inflammation, psoriasis, pilaris, growth factor mediated cell proliferation; ichthyosis, serborrhoea, ruba, kearcosis, neoplasia, scleroderma, wart, skin cancer; sclerotic disease, hyperneovascular condition, hyperplasis, kidney disease; neovascular condition, hyperplasis, kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15 BP; 0 A; 5 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 7; Page 45; 201pp; English.
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                                                                                                 IGFBP3 oligonucleotide #181.
                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CJ, Werther GA,
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nes 13; Conservative
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                                                           30-MAR-2001
                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-JUN-1999;
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                 AAF46761;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wraight
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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

Example 8; Page 63; 201pp; English.

inflammation.

Edmondson SR;

Werther GA,

Wra'ight CJ,

WPI; 2001-041421/05.

(MURD-) MURDOCH CHILDRENS RES INST.

99US-0140345P.

21-JUN-1999;

21-JUN-2000; 2000WO-AU000693.

WO200078341-A1.

28-DEC-2000.

Homo sapiens.

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The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF] receptor, IGF binding protein [IGFBP] - or IGFBPB), which is capable inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 inchthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15 BP; 3 A; 9 C; 0 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disease, kidney urseur, ... vessels or any other hyperplasia
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13

à g (first entry)

30-MAR-2001

AAF49378;

AAF49378
ID AAF4
XX
AC AAF4
XX
DT 30-M

AAF49378 standard; DNA;

RESULT 858

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF1-1; pityriaais; IGF binding protein; IGFB-2; IGFBP3; etch Ilamation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition; the retina; sc.
                                                                                                                                                                                                                                                                    Edmondson SR
                                                                                                                                                                                                                                          (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                        Example 8; Page 72; 201pp; English.
                                                                                                                                                                                        21-JUN-2000; 2000WO-AU000693
                                                                                                                                                                                                                99US-0140345P.
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                                                                                                                                   WO200078341-A1.
                                                                                                                                                                                                                                                                                                                                                                inflammation.
                                                                                                           Homo sapiens.
                                                                                                                                                                                                                21-JUN-1999;
                                                                                                                                                             28-DEC-2000
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleoride, (for Insulin-like Growth Factor [GPF]-1 receptor, IGF binding protein [IGFB]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide is useful for ameliorating the effects of psoriasis, chthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, varts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, the brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood to sessels or any other hyperplasia Sequence 15 BP; 2 A; 4 C; 7 G; 2 T; 0 U; 0 Other; Query Match

.; 0 0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; tive 0; Mismatches 2; Indels Local Similarity 86.7 nes 13; Conservative Matches

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AAF50569 standard; DNA; 15 BP

RESULT 861

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Gaps

IGF-I oligonuclectide #1529.

(first entry)

30-MAR-2001

AAF50569;

AAF46786 standard; DNA; 15 (first entry) 30-MAR-2001 AAF46786; RESULT 860 **AAF46786**

BP

Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic; cytostatic, dermatological; cardiant; virucide, ophthalmological; Keloid; skin discorder; Insulin-Ilke Growth Factor I receptor; IGF-1; pityriasis; IGF binding proctein; IGFB-2; IGFBP3; inflammation; psoriasis; plaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; sclaroderma; wart; skin cancer; sclerotic disease; hyperacovascular condition; hyperplasia; kidney disease; neobascular condition; byterplasia; kidney disease; Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic; cytostatic; dermatological; cardiant; virucide, ophthallogical; kaloid; skin discorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF biding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; IGFBP3 oligonucleotide #206.

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [167]-1 receptor, [167 binding protein [167BP]-2 or IGFBP3), which is capable of inhibiting or reducing prowth factor mediated cell proliferation.

In compared to the disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-1545161). The method is useful for ameliorating the effects of psoriasis, cichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, nepplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperplasia
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                                                                                                                                                                                                                                                                                                                                                                                      Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
skin cancer; sclerotic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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keratosis, neoplasia, scleroderma, wart, skin cancer, sc
hyperneovascular condition, hyperplasia, kidney disease,
neovascular condition of the retina; ss.
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                                                                                                                                                                                                                                                                                                                Edmondson SR;
                                                                                                                                                                                                                                                                          (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 7; Page 45; 201pp; English.
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                                                                                                                                                                                                21-JUN-2000; 2000WO-AU000693.
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nes 13; Conservative
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                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-041421/05
                                                                                                                   WO200078341-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                      inflammation.
                                                                                                                                                                                                                                     21-JUN-1999;
                                                                                                                                                                                                                                                                                                                Wraight CJ,
                                                                                Homo sapiens
                                                                                                                                                           28-DEC-2000
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Matches
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28-DEC-2000

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligomucleoride, (for Insulin-like Growth Factor [GGP]-1 receptor, IGF binding protein [IGFB]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, oligomucleotide which can be used to design the antisense oligomucleotide which can be used to design the antisense oligomucleotide which can be used to design the affects of psoriasis, FA5161). The method is useful for ameliorating the effects of psoriasis, nothyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, the brain or skin, growth factor—mediated malignancies, other sclerotic disease, kidney disease, hyperpooliferation of the inside of blood to essels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                            Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                               Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 8; Page 70; 201pp; English.
                                                                                                                                                                                                       (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                               99US-0140345P.
                                                                                                                       21-JUN-2000; 2000WO-AU000693.
                                                                                                                                                                                                                                               Werther GA,
                                                                                                                                                                                                                                                                                      WPI; 2001-041421/05.
                                       WO200078341-A1.
                                                                                                                                                                                                                                                                                                                                                                                              inflammation.
  Homo sapiens
                                                                                                                                                                 21-JUN-1999;
                                                                                                                                                                                                                                               Wraight CJ,
                                                                               28-DEC-2000
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Sequence 15 BP; 4 A; 9 C; 0 G; 2 T; 0 U; 0 Other;

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0; Gaps
0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; rive 0; Mismatches 2; Indels
                                       13; Conservative
                    Similarity
 Query Match
Best Local S
Matches 13
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1133 TCACCTCCAGCTCCA 1147 ઠે

AAF50570 standard; DNA; 15 BP AAF50570; RESULT 862 AAF50570

IGF-I oligonucleotide #1530. (first entry) 30-MAR-2001

Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological; keloid, skin discorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein, IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatoolsis, neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neobascular condition; hyperplasia; kidney disease;

WO200078341-A1

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleoride, (for Insulin-like Growth Factor [IGP]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders, serborrhoea, kerdisols, F45161). The method is useful for ameliorating the effects of psoriasis, cichthyosis, pityriasis, rubra, pilaris, serborrhoea, keloids, keracosis, neoplasias, scleroderma, warts, benign growths, canners of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
                                                                                                                                                                                                                                                         Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 4 A; 10 C; 0 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                           Edmondson SR;
                                                                                                                              CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                            Example 8; Page 70; 201pp; English.
                                                                                     99US-0140345P.
                                             21-JUN-2000; 2000WO-AU000693
                                                                                                                                                                         Wraight CJ, Werther GA,
                                                                                                                                                                                                                      WPI; 2001-041421/05
                                                                                                                           (MURD-) MURDOCH
                                                                                                                                                                                                                                                                                                                                   inflammation.
                                                                                   21-JUN-1999;
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0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; Ative 0; Mismatches 2; Indels 1134 CACCTCCAGCTCCAC 1148 1 CACCTCCACCACCAC 15 Query Match
Best Local Similarity 86.7
Matches 13; Conservative g ö

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Gaps

0

RESULT 863 AAF46785 ID AAF46785 standard; DNA; 15 30-MAR-2001 (first entry) AAF46785;

IGFBP3 oligonucleotide #205.

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFB-2; IGFB2; inflammation; psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatosis; neoplasia; sclaroderma; wart; skin cancer; sclerotic disease; hyperacovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

Homo sapiens.

WO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693

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(MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                           21-JUN-2000; 2000WO-AU000693
                   WPI; 2001-041421/05.
                                                                                                              Local Similarity
                                                                                                                                                                                                             WO200078341-A1
                                                                                                                                                            30-MAR-2001
                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                 21-JUN-1999;
                                    inflammation.
21-JUN-1999;
                                                                                                                                                                                                                    28-DEC-2000
             Wraight CJ,
                                                                                                                                                      AAF47506;
                                                                                                           Query Match
                                                                                                                                         RESULT 864
                                                                                                                  Matches
                                                                                                                                            AAF47506
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGRP-1] receptor, IGF binding protein [IGRBP-2] or IGFBP3), which is capable of inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the ARF45151 and AAF45153- CF F45161). The method is useful for ameliorating the effects of psoriaais, inthipsis, pityriasis, ruba, pilaris, serborthoea, keloids, keratosis, chhyposis, pityriasis, ruba, pilaris, serborthoea, keloids, keratosis, chyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood customers.
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                                                                                                 Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.5%; Score 11.8; DB 1; Length 15; Best Local Similarity 86.7%; Pred. No. 5.1e+02; Matches 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15 BP; 4 A; 8 C; 2 G; 1 T; 0 U; 0 Other;
Edmondson SR;
                                                                                                                                                                                                                                              Example 7; Page 50; 201pp; English.
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Wraight CJ, Werther GA,
                                                     WPI; 2001-041421/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200078341-A1.
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                                                                                                                                                                                            inflammation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin discorder, Insulin-Ilke Growth Factor I receptor; IGF-1; pityriasis, IGF binding protein, IGFBP-2; IGFBP3; inflammation, psoriasis, pityriasis, growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keardosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neobascular condition of the retina; ss.
                                                                                                                                                                                                                    Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       oligonucleotides of the present invention (see AFF45151 and AAF45153-
PAF161). The method is useful for ameliorating the effects of postiaais,
ichthyosis, pityriasis, ruba, plaris, serborrhoea, Keloids, keratosis,
neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
hyperneovascular condition such as a neovascular condition of the retina,
brain or skin, growth factor-mediated maliannoides, other sclerotic
disease, kidney disease, hyperproliferation of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to a method for ameliorating the effects of
                                                                                                                                                                                                                                                                                                                                                                                                                                  skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding procein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 0 A; 4 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                            Edmondson SR;
                                                       (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                              Example 7; Page 45; 201pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vessels or any other hyperplasia
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99US-0140345P.
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                                                                                                            GA,
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                                                                                                            Werther
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Gaps

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Edmondson SR;

Werther GA,

Wraight CJ,

99US-0140345P.

WPI; 2001-041421/05

(MURD-) MURDOCH CHILDRENS RES INST

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                         inflammation.
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Example 7; Page 50; 201pp; English

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticorderide, (for Insulin-like Growth Factor [108]-1.

Transing or indigenceloride, (for Insulin-like Growth Factor [108]-1.

Thibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pitaris, serborthoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood tessels or any other hyperplasia

Sequence 15 BP; 5 A; 7 C; 2 G; 1 T; 0 U; 0 Other;

ö Gaps 6 0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; cive 0; Mismatches 2; Indels 13; Conservative Local Similarity Query Match Matches

1085 CAGGCTTCACCCCCA 1099 CAGGCTACACCACCA 15 g δ

RESULT 866

AAF46757 standard; DNA; 15 30-MAR-2001 (first entry) AAF46757; AAF4675'

ВР

IGFBP3 oligonucleotide #177.

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGP-1; pityriasis; IGF binding protein, IGFBP-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; scrborrhoea; ruba; keratosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neobascular condition; hyperplasia; kidney disease;

Homo sapiens

WO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693

(MURD-) MURDOCH CHILDRENS RES'INST. 99US-0140345P. 21-JUN-1999;

SR Edmondson Werther GA, Wraight CJ,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticomplete state of antisease oligonuclectide, (for Insulin-like Growth Factor (IGF)-1 receptor, IGF binding protein [IGFB]-2 or IGFBB3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inhibiting or other disorders. The present sequence is an information and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisease oligonuclectide which can be used to design the antisease oligonuclectide with a present invention (see AAF45151 and AAF45153-CF45161). The method is useful for ameliorating the effects of psoriasis, chthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hoperneovascular condition such as a neovascular condition fithe retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood cure of the research and provided the inside of blood.
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                        Example 7; Page 45; 201pp; English.
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Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; extostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; linsulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding proctein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keardosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis, kidney disease; neovascular condition of the retina; ss. ВР IGF-I oligonucleotide #3138. (first entry) AAF52178 standard; DNA; 30-MAR-2001 AAF52178; RESULT 867 AAF52178/

WO200078341-A1. Homo sapiens.

21-JUN-2000; 2000WO-AU000693.

28-DEC-2000.

21-JUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR Werther GA, Wraight CJ,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering W (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or infilammation.

Example 8; Page 81; 201pp; English.

ĕ The present invention relates to a method for ameliorating the effects

Sequence 15 BP; 5 A; 7 C; 2 G; 1 T; 0 U; 0 Other;

X 8

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skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-Ike Growth Factors [1989-1] receptor, IGF binding protein [IGFBP2] or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectide which can be used to design the antisense oligonuclectide which as the present invention (see AAF45151 and AAF45153-F55161). The method is useful for ameliotrating the effects of psortasis, inchipyosis, pityriasis, ruba, planis, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malianancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                vessels or any other hyperplasia
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Seguence 15 BP; 8 A; 2 C; 2 G; 3 T; 0 U; 0 Other;

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0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; rative 0; Mismatches 2; Indels
                                                        940 TICATIGGITIAAIG 954
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                               13; Conservative
                 Local Similarity
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  Query Match
                              Matches
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Gaps

AAH28559 standard; DNA; 15 BP AAH28559; RESULT 868 AAH2855

17-JUL-2001 (first entry)

Human, interleukin-13; IL13; single nucleotide polymorphism; SNP; cancer; inflammation, immune disorder; cytokine; asthma; chromosome 5q31; fibrosis; forensic; disease susceptibility; drug screening; probe; ss.

Human interleukin-13 allele specific oligonucleotide #45.

Homo sapiens

WO200123410-A2.

05-APR-2001.

27-SEP-2000; 2000WO-US026556.

28-SEP-1999;

(GENA-) GENAISSANCE PHARM INC.

Nandabalan K, Denton RR, Chew A,

WPI; 2001-343160/36.

Stephens JC;

Novel polynucleotide comprising single nucleotide polymorphisms in human interleukin-13 gene is useful for studying expression and function of interleukin-13, as well as diagnosing and treating cancer, inflammatory, and immune disorders.

Claim 15; Page 20; 85pp; English.

The present invention provides the protein, cDNA and genomic sequences of human interleukin-13 [113], and describes the single nucleotide polymorphisms (SNPs) found within the gene, which is found on chromosome 5q31. ILM3 is a pro-inflammatory cytokine thought to be involved in the pathogenesis of asthma and other immune and inflammatory diseases. The ILM3 sequences and the SNPs identified can be used in drug screening, to determine an individual's susceptibility to disease, in forensic and patermity testing, and to identify treatments for cancer, immune and inflammatory diseases, including asthma and diseases characterised by fibrosis. The present sequence is an ILM3 allele-specific oligonucleotide

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n; dopamine receptor D2; DRD2; polymorphism; allele specific; target isogene; detection; single nucleotide polymorphism; SNP; type; schizophrenia; Parkinson's disease; myoclonus dystonia; MD
                     Gaps
                     ó,
                                                                                                                                         Human DRD2 allele specific oligonucleotide probe SEQ ID NO:45.
     Length 15;
                                                                                                                                                                                                                                                                                             Stephens JC;
    Score 11.8; DB 1; Length 1
Pred. No. 5.1e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                             Duda A, Nandabalan K,
0.5%; Scor.
86.7%; Pred
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                                                                                                                                                                                                                                                                              (GENA-) GENAISSANCE PHARM INC.
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                                     1294 AAGCCACAGAGCCTA 1308
                                                   1 AAGCCACCAGCCTA 15
                                                                                           AAF70302 standard; DNA; 15
                                                                                                                          (first entry)
      Query Match 0.5
Best Local Similarity 86.7
Matches 13; Conservative
                                                                                                                                                                                 probe; PCR primer; ss.
                                                                                                                                                                                                                                                                                              Denton RR,
                                                                                                                                                                                                                                                                                                            WPI; 2001-091967/10.
                                                                                                                                                                                                                WO200105832-A1
                                                                                                                          20-APR-2001
                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                               19-JUL-1999;
                                                                                                                                                                                                                                25-JAN-2001.
                                                                                                           AAF70302;
                                                                                                                                                                           genotype
                                                                                                                                                                                                                                                                                              Chew A,
                                                                                                                                                          Human;
                                                                             RESULT 869
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The present invention describes polymuclectides comprising single nuclectide polymorphisms (SNPs) in the human dopamine receptor D2 (DRD2). The polymuclectides may be used in assays to detect and characterise The polymuclectides may be used in assays to detect and characterise polymorphisms in DRD2 that affect its expression and activity and are involved in disorders such as schizophrenia, Parkinson's and mycolonus dystonia (MD). This information would be useful for sudying the belological function of DRD2 as well as in identifying drugs targeting this protein for the treatment of disorders related to its abnormal expression or function. Polymorphisms in the DRD2 gene affect the expression of active and functional polympeptides. Therefore it is advantageous to detect polymorphisms in the DRD2 gene and how those of polymorphisms are combined in different copies of the gene. AAP70261 to polymorphisms are combined in different copies of the gene. AAP70305 to AAP70404 represent thuman DRD2 allele specific oligonucleotide primers which are used in the detection of DRD2 polymorphisms. AAP70405 to DRD2 polymorphisms which are given in the exemplification of the present copies of the present invention. AAP70431 to AAP70538 represent the present invention of the human DRD2 copymorphisms which are used in examples from the present invention.

Polynucleotides comprising single nucleotide polymorphisms in the hum dopamine receptor D2, useful for detecting mutations associated with, e.g. schizophrenia, Parkinson's and myoclonus dystonia.

Claim 15; Page 22; 135pp; English.

Sequence 15 BP; 4 A; 2 C; 8 G; 1 T; 0 U; 0 Other;

0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; Best Local Similarity Query Match

Matches

AAF69371,

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receptor-lipha gene (ILAR-alpha, see AAP57718 for the reference sequence). Polymucleotides comprising polymorphic gene variants are useful for therapeutic purposes. For example, where a patient may benefit from expression of a particular ILARalpha protein isoform, an expression vector encoding the isoform may be administered to the patient. It may desirable to decrease or block expression of a particular ILARalpha isogene, which may be done by turning off by transforming a targeted organ, tissue or cell population with an expression vector that expresses high levels of untranslatable mRNA for the isogene. Specific therapeutics identified by these methods may be useful for allergic diseases. The present sequence is a probe for human ILAR-alpha
                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated polynucleotide useful for the identification of therapeutics in allergic diseases is new.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       relates to polymorphisms of the human interleukin 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; neuroprotective; neotropic; gene therapy; vaccine; Alzheimer's Disease-Associated Feature; AF; Alzheimer's Disease-Associated Feature; AF; Alzheimer's Disease-Associated Protein Isoform; API; tryptic digest; Axpression Reference Protein Isoform; ERPI; probe; ss.
                                                     interleukin 4 receptor-alpha; IL4R-alpha;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 11.8; DB 1; Length 15; Pred. No. 5.1e+02;
                                                                                                                                                                                                                                                                                                                                    Stephens JC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 1 A; 11 C; 2 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                    Duda A, Nandabalan K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 15; Page 44; 188pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human API-112 preferred probe #2.
                     Human IL4Ralpha gene probe #141
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                                                                                                                                                                                                                                                                                                  (GENA-) GENAISSANCE PHARM INC.
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                                                     Polymorphism; human; interle
allergic disease; probe; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention
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                                                                                                                                                                                                                                                                                                                                        Denton RR,
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Best Local Similarity
                                                                                                                                                WO200104270-A1
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                                                                                                                                                                                                                                                            13-JUL-1999;
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                                                                                                              Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated polynucleotide useful for the identification of therapeutics
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Pred. No. 5.1e+02;
0; Mismatches 2; Indels
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 Indels
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Mismatches
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                                                                                                                                                                                                                                                                              Human IL4Ralpha gene probe #11
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                                     1196 TGGCACCACCTATC 1210
                                                                                                                                                                AAF69371 standard; DNA; 15 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             in allergic diseases is new.
                                                                                                                                                                                                                                                                                                                Polymorphism; human; interleallergic disease; probe; ss
                                                                                                                                                                                                                                         (first entry)
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Windemuth AK;
                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
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Best Local 8
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Indels

Durham KL, Potter DM,

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The present invention relates to a method of coupling visual servoing microscopy with living cell analysis, where cellular image data received from a detection device that monitors cells or subcellular components of the cells, is analysed, and in response to the analysed cellular image data several stimulating devices adapted to stimulate the cells or subcellular components, is automatically actuated. The method is useful concarrying out cell-type specific fluorescence assays that are useful for any types of cells, and allows detection and discrimination between normal, premalignant, malignant and/or multidrug resistant cancer cells obtained from tissue, for establishing a chemotherapeutic regimen that is tailored to an individual patient and/or individual tumour and for screnning large numbers of potential drug, insecticide, herbicide and stream expensed is an peptide nucleic acid (PNA) antisense sequence in medicine, agriculture and biotechnology. The present sequence is an peptide nucleic acid (PNA) antisense sequence
                                                                                                        Coupling visual servoing microscopy technique with living cell analysis involves analyzing image data received from detection device monitoring cells, and automatically actuating stimulating devices to stimulate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; intercellular adhesion molecule 2; ICAM2; haplotyping; ss; hanlotyne pair; single nucleotide polymorphism; genotyping; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      in intercellular adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         haplotype pair; single nucleotide polymorphism; genotyping; PCR igene therapy; drug screening; anti-HIV; antiinflammatory; probe; human immunodeficiency virus; sequencing primer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; ve 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 2 A; 11 C; 1 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lee HH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human ICAM2 haplotype DNA reference sequence #10.
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                                                                                                                                                                                                                             Example 7; Page 83; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Denton RR,
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                        Parvin B;
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                                                                 WPI; 2002-205819/26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200185918-A1.
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                        Callahan DE,
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                                                                                                                                                                                 cells.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to methods for the screening, diagnosis and prognosis of Alzheimer's disease. The methods involve the detection of Alzheimer's Disease-Associated Peatures (AFs) and Alzheimer's Disease-Associated Protein Isoforms (APIs) in cerebrospinal fluid, serum or Associated Protein Isoforms (APIs) in cerebrospinal fluid, serum or Expression Reference Protein Isoform (ERPI) in order to determine whether a patient is suffering from, or has a predisposition to, Alzheimer's severity of Alzheimer's Disease. The relative abundance of the AFs and APIs correlates with the severity of Alzheimer's Disease. The present sequence is a probe that may be used for screening an API
                                                                                                                                                                                                                                                                                                                  Screening for Alzheimer's disease in a mammal, by making two-dimensional array of a feature whose relative abundance correlates with disease, and comparing with abundance of the feature in samples of healthy persons.
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chemotherapy testing, bcl-2, polyamide backbone, PNA, antisense,
peptide nucleic acid, ss.
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                                                                                                                                                                               Friedman DL, Herath HMAC, Kimmel
Rohlff C, Silber BM, Stiger TR,
White F, Williams SA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human bcl-2 antisense oligonucleotide PNA-1.
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/note= "polyamide backbone"
                                                                                                             (OXFO-) OXFORD GLYCOSCIENCES UK LTD. (PFIZ ) PFIZER INC.
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                                                                                                                                                                                                                                                                                                                                                                                                               Claim 83; Page 157; 162pp; English
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03-APR-2001; 2001WO-US010908.
                                           2000US-0194504P.
2000US-0253647P.
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modified_base
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28-NOV-2000;
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                                                                                                                                                                                                                               Fownsend RR,
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Query Match

Local

Best Loca Matches

AAL44700;

RESULT 873 AAL44700

qq

13-DEC-2001

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Gaps

gene by using probes optimized to function together in a reverse-hybridization assay.

Claim 2; Page 29; 117pp; English.

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The invention relates to single nucleotide polymorphisms in the gene encoding human intercellular adhesion molecule 2 (ICAM2). A method for haplotyping the ICAM2 gene in an individual comprises identifying the nucleotide at one or more polymorphic sites and determining whether one of the copies of the gene is defined by one of the ICAM2 haplotypes given in the specification or whether both copies are defined by a haplotype pair. This method is useful in genotyping, whereby all possible haplotype pair. This method is useful in genotyping, whereby all possible haplotype pairs and a haplotype or haplotype pair of the haplotype or haplotype pair in a reference population, where a higher haplotype for haplotype pair in a reference population, where a higher haplotype for haplotype pair in a reference population, where a higher haplotype for haplotype pair. ICAM2 and its corresponding DNA are used for studying the expression and function of ICAM2, for use in screening for studying the expression and function of ICAM2, for use in screening for studying the effect of variation on the biological activity of ICAM2. Sequences AAS95562-AAS95419-AAS95442 represent allelences AAS95562-AAS95417 and AAS954419-AAS95442 represent allelences and cDNA sequences and cDNA specific collegoucletic probes, sequencing primers and cDNA
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immunodeficiency virus infection and inflammatory diseases.
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                                                                                                                          Example 2; Page 35; 81pp; English.
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\begin{array}{l} \texttt{F} \times \texttt{W} \times \texttt{P} \cap \texttt{
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The present invention describes a method for detecting mutations associated with anti-HIV drug resistance in a patient by detecting at least one of the mutations K103N/R, V106A/I/L, Y181C/I, M184V/I, X188L, G190A/S/R, T215Y/F/D/S/A and/or Ol51M/L in the reverse transcriptase (RT) of HIV strains in a biological sample using a specific set of probes optimised to function together in a reverse-hybridisation assay. The method and the nucleic acid sequences used in the method are useful for determining viral mutations and/or polymorphisms in the HIV RT gene associated with resistance. The probes are useful for the genetic detection, preferably in vitro detection of the mutations K103N/R, V106A/I/L, Y181C/I, O151M/L, M184V/I, Y188L, G190A/S/R and/or resistance of mutation is associated with anti-HIV drug resistance. The method provides a rapid, reliable and precise assay or determination and monitoring of a rapid, reliable and precise assay or determination and monitoring of a rapid, reliable and precise assay or determination and monitoring of sequences and probes which are used in the exemplification of the present

Sequence 15 BP; 5 A; 5 C; 2 G; 3 T; 0 U; 0 Other;

invention

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                                                                                                                                                                                                                                                      Human immunodeficiency virus; HIV; reverse transcriptase; RT; enzyme; detection; mutation; anti-HIV drug resistance; polymorphism; resistance;
                            Gaps
                                                                                                                                                                                                                           HIV-1 reverse transcriptase mutation detection probe SEQ ID NO:881.
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/ Match
0.5%; Score 11.8; DB 1; Length 15;
Local Similarity 86.7%; Pred. No. 5.1e+02;
les 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                           Human immunodeficiency virus 1.
                                                                                                                                                ABZ34639 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                              11-JAN-2001; 2001EP-00870005.
20-APR-2001; 2001EP-00870085.
24-APR-2001; 2001US-0286102P.
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                                                     793 GICTCCTGTAGTAAC 807
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                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                    probe; as
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 Query Match
                          Matches
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Human immunodeficiency virus; HIV; reverse transcriptase; RT; enzyme; detection; mutation; anti-HIV drug resistance; polymorphism; resistance;

Human immunodeficiency virus 1

Synthetic

probe; ss.

40200255741-A2.

18-JUL-2002.

11-JAN-2001; 2001EP-00870005. 20-APR-2001; 2001EP-00870085. 24-APR-2001; 2001US-0286102P.

INNO-) INNOGENETICS NV

Stuyver L;

De Smet K,

WPI; 2002-590680/63.

Detecting detecting

09-JAN-2002; 2002WO-EP000153

HIV-1 reverse transcriptase mutation detection probe SEQ ID NO:473.

(first entry)

31-JAN-2003

ABZ34231;

mutations associated with anti-HIV drug resistance comprises at least one of the mutations in the HIV reverse transcriptase

SAGE tags of the invention

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The present invention describes a method for detecting mutations associated with anti-HIV drug resistance in a patient by detecting at associated with anti-HIV drug resistance in a patient by detecting at 1804/8/R, T215YF/D/S/A and/or O151M/L in the reverse transcriptase (RT) of 5104A/S/R, T215YF/D/S/A and/or O151M/L in the reverse transcriptase (RT) of HIV strains in a biological sample using a specific set of probes optimised to function together in a reverse-hybridisation assay. The method and the nucleic acid sequences used in the method are useful for determining viral mutations and/or polymorphisms in the HIV RT gene associated with resistance. The probes are useful for the genetic detection, preferably in virro detection of the mutations K103N/R, V106A/I/L, Y181C/I, O151M/L, M184V/I, Y181C, G190A/S/R and/or C151SY/F/D/S/A in the RT of HIV strains in a biological sample, where the mutation is associated with anti-HIV drug resistance. The method provides a rapid, reliable and precise assay or determination and monitoring of antiviral drug resistance or mutation is associated with anti-HIV drug resistance of viruses containing RT genes. AB234642 represent HIV RT contains and probes which are used in the exemplification of the present
                                     2; Page 29; 117pp; English
\overset{\mathcal{A}}{\times}\overset{\times}{\times}\overset{\mathcal{O}}{\circ}\overset{\mathcal{O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Sequence 15 BP, 5 A; 5 C; 2 G; 3 T; 0 U; 0 Other;

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Gaps
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0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; Live 0; Mismatches 2; Indels
  Query Match
Best Local Similarity 86.7
Matches 13; Conservative
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793 GICICCIGIAGIAAC 807 15 Grergereragiane 1 a

(first entry) ABK32144 standard; DNA; 23-APR-2002 ABK32144; RESULT 877 ABK32144/

Human colon cancer SAGE tag #245.

Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag; serial analysis of gene expression; diagnostic; prognostic; probe; cancer marker; ss.

Homo sapiens.

US6333152-B1

25-DEC-2001

98US-00081646. 20-MAY-1998;

98US-00081646 20-MAY-1998;

(UYJO) UNIV JOHNS HOPKINS.

Zhou W; Zhang L, Vogelstein B, Kinzler KW,

New human nucleic acid containing specific SAGE tags, useful diagnostic markers for cancer, also derived probes.

WPI; 2002-153821/20.

Disclosure; Col 31; 161pp; English.

as

The invention relates to an isolated, purified human nucleic acid (I) that has the same sequence as a mRNA found in humans and is a SAGE (serial analysis of gene expression) tag comprising a single stranded probe containing at least 10 consecutive nucleotides. SAGE tags, are diagnostic and prognostic markers of cancer, especially of the colon and pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer

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The present invention relates to enzymatic nucleic acids which specifically of cleave RNA derived from Hepatitis C virus (HCV). The enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV ribozymes are useful for modulating the expression and/or replication of HCV. They can be used to treat cirthosis, liver failure and/or hepatococlular carcinoma. The HCV ribozymes are also useful for treating chertical associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon, especially interferon alpha, beta or gamma or consensus interferon. The present sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note: Some of the sequence data for this patent did not form part of the obtained in electronic format directly from the USPTO web site at sequent was sequence.
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                                                                                                                                                                                                                                                                                                                                                                               Enzymatic nucleic acid, RNA cleavage, Hepatitis C virus infection, HCV ribozyme; HCV expression, HCV replication, cirrhosis, virucide; liver failure, hepatocellular carcinoma; HCV infection, drug therapy, type I interferon; interferon alpha; interferon beta; cytostatic; interferon gamma; consensus interferon; hepatotropic; antiinflammatory; substrate; hammerhead ribozyme; HH ribozyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New ribozymes targeting RNA derived from hepatitis C virus inhibit vireplication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.
                                                                                                                                                                                                                                                                                                                                               Hepatitis C virus substrate #940 for HCV hammerhead ribozyme #940.
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                               0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; ive 0; Mismatches 2; Indels
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Sequence 15 BP; 4 A; 4 C; 4 G; 3 T; 0 U; 0 Other;
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MCSWIGGEN J A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ROBE/) ROBERTS B. (PAVC/) PAVCO P A. (MACE/) MACEJACK D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-617759/66
                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hepatitis C virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US2002082225-A1.
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Length 15;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New ribozymes targeting RNA derived from hepatitis C virus inhibit viral replication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Enzymatic nucleic acid, RNA cleavage, Hepatitis C virus infection, HCV ribozyme, HCV expression, HCV replication, cirrhosis, virucide, liver failure, hepatocellular carcinoma, HCV infection, drug therapy, type I interferon, interferon alpha, interferon beta, cytostatic, interferon gamma, consensus interferon, hepatotropic, antiinflammatory, substrate, hammerhead ribozyme, HH ribozyme, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         printed specification. The complete sequence data for this patent was obtained in electronic format directly from the USPIO web site at
                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                    Hepatitis C virus substrate #337 for HCV hammerhead ribozyme #337.
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                                              Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Macejack D;
                                                                                       2; Indels
Sequence 15 BP; 4 A; 8 C; 2 G; 0 T; 1 U; 0 Other;
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                                           0.5%; Score 11.8; DB 1;
80.0%; Pred. No. 5.1e+02;
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                                                                                         1; Mismatches
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                                                                                                                                1085 CAGGCTTCACCCCCA 1099
                                                                                                                                                                                                                                                                                              ABX00555 standard; RNA; 15 BP
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                                                                                                                                                                CAGGCCUCACCCACA 15
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                                                                 1 Similarity 80.0 12; Conservative
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MCSWIGGEN J A.
ROBERTS B.
PAVCO P A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           depatitis C virus.
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                                      Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                            ABX00555;
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(MCSW/)
(ROBE/)
                                                                                       Matches
                                                                                                                                                                                                                                                RESULT 873

ABX 00555/

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ABX 00555/

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ABX 00555/

ABX 0055/

ABX 011/

ABX 0
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The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV ribozymes are useful for modulating the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or replication of hopatocellular carcinoma. The HCV infection in conjunction with one or more a condition associated with HCV infection in conjunction with one or more cher drug therapies, particularly type I interferon, especially interferon alpha, beta or gamma or consensus interferon. The present sequence data for this patent did not form part of the printed specification. The complete sequence data for this patent was obtained in electronic format directly from the USPTO web site at
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Enzymatic nucleic acid, RNA cleavage, Hepatitis C virus infection, HCV ribozyme; HCV expression, HCV replication, cirrhosis, virucide, liver failure, hepatocellular carcinoma; HCV infection, drug therapy, type I interferon; interferon alpha; interferon beta; cytostatic; interferon gamma; consensus interferon, hepatotropic, antiinflammatory; substrate; hammerhead ribozyme; HH ribozyme; ss.
                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hepatitis C virus substrate #855 for HCV hammerhead ribozyme #855.
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                                                                     Indels
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Score 11.8; DB 1;
Pred. No. 5.1e+02;
0; Mismatches 2;
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                                                                                                                                          816 AAGCCTGGAGTGCAC 830
                                                                                                                                                                                                                                                                                                                                                       073/c
ABX01073 standard; RNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                     15 AAGCCACGAGTGCAC
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(MCSW/) MCSWIGGEN J A.
(ROBE/) ROBERTS B.
(PAUC/) PAVCO P A.
(MACE/) MACEJACK D.
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Best Local Similarity
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753 CACCIGCCAIGCAGG 767

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The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The enzymatic nucleic acid or inbozyme is in a harmerhead (HH) or hairpin (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV ribozymes are useful for modulating the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or replication accolated with HCV infection in conjunction with one or more condition associated with HCV infection in conjunction with one or more a condition associated with HCV infection in conjunction with one or more citre farge therapies, particularly type I interferon. The present sequence data for this patent did not form part of the printed specification. The complete sequence data for this patent was obtained in electronic format directly from the USPTO web site at sequence acta for this patent was obtained in electronic format directly from the USPTO web site at
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New ribozymes targeting RNA derived from hepatitis C virus inhibit viral replication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.
                                                                                                                                                                                                                                                                                                                  Enzymatic nucleic acid, RNA cleavage, Hepatitis C virus infection,
HCV ribozyme; HCV expression, HCV replication; cirrhosis; virucide;
liver failure, hepatocellular carcinoma; HCV infection, drug therapy,
type I interferon; interferon alpha; interferon beta; cytostatic;
interferon gamma; consensus interferon; hepatocropic; antiinflammatory;
substrate; hammerhead ribozyme; HH ribozyme; ss.
Gaps
                                                                                                                                                                                                                                                                               Hepatitis C virus substrate #131 for HCV hammerhead ribozyme #131.
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Indels
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Mismatches
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                                  1056 GGCCCCAAACCCAAG 1070
                                                                                                                                                                   ABX00349 standard; RNA; 15 BP
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                                                                      15 GCCCCAAAACCCAAG 1
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13; Conservative
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(MCSW/) MCSWIGGEN J A.
(ROBE/) ROBERTS B.
(PAVC/) PAVCO P A.
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Matches
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                                                                                                                              RESULT
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The invention relates to reading microarray devices having addressable electrodes to determine binding between capture probe and target molecule (TM). The method involves providing an array having electrodes and capture molecules, attaching an oxidation/reduction enzymatic molecule or attaching an oxidation/reduction enzymatic molecule or attaching an oxidation/reduction enzymatic molecule or array to create a voltage, and mesaring the voltage. The method is useful for reading microarray devices having addressable electrodes to determine the binding between a capture probe and a target molecule, where the target molecule is selected from DNA, RNA, single-stranded DNA, ribosomal RNA, mitochondrial DNA, cellular receptors, glycosylated membrane bound proteins, non-glycosylated membrane-bound proteins, polypeptides, glycosylated from DNA cantibodies, cellular antigonic determinants, organic molecules, metalions, salt anions and cations, and their combinations. The present sequence represents a Kras sequence used to exemplify an oligonucleotide
                                                                                                                                                                                                                                                Microarray device; electrode; oxidation; reduction; Kras; hybridization;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Assaying binding of target and capture molecules on microarray devices, by providing an array having electrodes and capture molecules, and enzymatically catalyzing oxidation/reduction reaction to detect current
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 BP; 2 A; 8 C; 2 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                    electrochemical detection; ss.
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                                                                                              ACC47781 standard; DNA; 15
                                                                                                                                                                         (first entry)
                                                                                                                                                                                                               Kras nucleotide sequence.
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  15 cáccreceáceade
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                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                   ACC47781;
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ID ABV9:
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Ouery Match Best Local Similarity 86.7 Matches 13; Conservative

RB; Stiger TR;

ABV93739;

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The present invention relates to methods for screening or diagnosing Alzheimer's disease (AD) to determine the stage or severity of AD in a subject, to identify subject at risk of developing AD, or to monitor the effect of therapy administered. The methods comprise analysing a test sample of body fluid by 2-dimensional electrophoresis to generate a 2-dimensional array of AD-associated features (AFS). The method alternatively comprises quantitatively detecting in a sample of body fluid from the subject, one or more AD-associated protein isoforms (APIS; ABRS9710-ABRS9184). The present sequence is a probe, used to illustrate
                                                                                                                                                                                                                                                                                                                                                                                                                                           Screening or diagnosing of Alzheimer's disease (AD) determine the stage or severity of AD in a subject, comprises analyzing a test sample of body fluid from the subject by 2-dimensional electrophoresis.
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Potter DM, Rohlff C, Silber BM, Snyder PJ, Soares HD,
Sunderland PT, Townsend RR, White WF, Williams SA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 proliferation; cell senescence; telomere length;
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                                                                                                                                                                                                                                  (PFIZ ) PFIZER PROD INC.
(OXFO-) OXFORD GLYCOSCIENCES UK LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 92; 179pp; English.
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93US-00038766.
93US-00060952.
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Best Local Similarity 86.7
Matches 13; Conservative
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                                           WO2003028543-A2
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Homo sapiens.
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13-MAY-1993;
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                                                                                         10-APR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABX50038;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 885
ABX50038/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes a modified Cry protein (I) that is sensitive to pepsin and comprises at least one additional pepsin cleavage sensitive to pepsin and comprises at least one additional pepsin cleavage site (PCS). Also described: (a) increasing pepsin sensitivity of cry proteins by incorporating at least one extra PCS; (b) polynucleotides (II) that encode (I); (c) chimaric genes (CG) that contain a promoter, (II) and terminator; (d) expression or transformation vector (III) that contains CG; (e) host organism (IV) transformed with (III), also, where the organism is a plant, its parts and seeds; (f) production of (I) by grains (I). (I) has insecticide activity. (I) can be used as insecticides, particularly where expressed in transgenic plants. (I) are sensitive to enzymes in the digestive tract of mammals, so do not persist in the tract (lack of persistence is required by regulatory authorities for use, in foods, of seeds containing Cry proteins). Extra PCS do not insecticidal activity. ABV93460 to ABV93309 and ABB6398 con insecticidal activity. ABV93460 to ABV93309 and ABB6308 con insecticidal activity. ABV93460 to ABV93309 and ABB6308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New modified Cry protein, useful as insecticide, comprises at least one additional pepsin cleavage site to reduce persistence in mammalian gut.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alzheimer's Disease-associated protein isoform, API, probe, SEQ ID 472.
                                                                                                                                    Bacillus thuringiensis; insecticide; toxin; Cry; pepsin cleavage site;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                         Bacillus thuringiensis toxin Cry related oligonucleotide Cry4Ba.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ..
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Alzheimer's Disease-associated protein isoform; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 0.5%; Score 11.8; DB 1; Length 15; Best Local Similarity 86.7%; Pred. No. 5.1e+02; Matches 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 7 A; 2 C; 1 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 4; Page 41; 134pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Frutos R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (AVET ) AVENTIS CROPSCIENCE SA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP.
                                                                                                                                                                                                                                                                                                                                                                                19-MAR-2001; 2001FR-00003691
                                                                                                                                                                                                                                                                                                                                                                                                                            19-MAR-2001; 2001FR-00003691.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACC71571 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGATTTATTTCTAAG 1
                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                           Bacillus thuringiensis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Freyssinet G, Rang C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-002439/01.
                                                                                                                                                             pepsin; PCS; ss.
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                                           08-JAN-2003
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                                                                                                                                                                                                                                                                                                                                   20-SEP-2002
                                                                                                                                                                                                                                       Synthetic.
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The invention describes a method use for treating increased rate of proliferation of a cell or extending the ability of a cell to replicate, or treating a disease associated with cell senescence. The method comprises administering an agent to reduce loss of telomere length within the senescing cells. The method is useful for treating a condition associated with an increased rate of proliferation of a cell extending the ability of a cell to replicate, or for treating a cell extending the ability of a cell to replicate, or for treating a disease or condition associated with cell senescence e.g. neoplasia. A second method disclosed in the invention is useful for treating a condition associated with an elevated level of telomerase activity within a cell e.g. cancer. Also disclosed is method useful for diagnosis of a condition associated with an increased rate of proliferation in a cell in an individual e.g. age-related macular degeneration, astrocytes associated with Alzheimer's discloses and endothelial cells associated with atherosclerosis. This sequence represents a polynucleotide used in the study of telomere length
                                                                                                                                                                    Treating condition associated with cell senescence or increased rate of cell proliferation, by administering to cell an agent that derepresses telomerase in the senescing cells or that reduces loss of telomere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cell proliferation; cell senescence; telomere length; telomerase activity; cel replication; neoplasia; cancer; age-related macular degeneration; Alzheimer's disease; atherosclerosis; telomerase; telomerase inhibitor; immortalised cell; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Telomere length and/or telomerase activity related polynucleotide #63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.5%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 5.1e+02; vative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 0 A; 0 C; 9 G; 6 T; 0 U; 0 Other;
                                                                                                     Wright W, Blackburn EH;
                                                                                                                                                                                                                                                            Example 13; Fig 18A; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         92US-00882438.
93US-00038766.
93US-00060952.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABX50040 standard; DNA; 15 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity 86.7
Les 13, Conservative
                                              WRIGHT W.
BLACKBURN E H.
                                                                                                                                    WPI; 2003-066896/06.
                                                                                                     Shay J,
              WEST M D.
SHAY J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2002127634-A1.
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24-MAR-1993;
13-MAY-1993;
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              (WEST/) (SHAY/) (WRIG/) (WEAC/) (
                                                                                                   West MD,
                                                                                                                                                                                                                              length.
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Gaps . 0

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The invention describes a method use for treating increased rate of proliferation of a cell or extending the ability of a cell to replicate, or treating a disease associated with cell senescence. The method comprises administering an agent to reduce loss of telomers length within comprises administering an agent to reduce loss of telomers length within associated with an increased rate of proliferation of a cell extending condition associated with an increased rate of proliferation of a cell extending to condition associated with cell senescence e.g. neoplasia. A second method disclosed in the invention is useful for treating a condition associated with an elevated level of telomerase activity within a cell e.g. cancer. CC with an increased rate of proliferation in a cell in an individual e.g. age-related macular degeneration, astrocytes associated with Alzheimer's cc disease and endothelial cells associated with atherosclerosis. This sequence represents a polymucleotide used in the study of telomere length cc and telomerase activity described in the invention
                                                                                                                                                     Treating condition associated with cell senescence or increased rate of cell proliferation, by administering to cell an agent that derepresses telomerase in the senescing cells or that reduces loss of telomere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Microarray; capture probe molecule; target molecule; electrode; oxidation/reduction enzymatic moiety; voltage signal; porous reaction layer; polymeric; lateral signal; laccase; horseradish peroxidase; beta-galactosidase; glucose oxidase; alkaline phosphatase; dehydrogenase; biotin; streptavidin; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 0.5%; Score 11.8; DB 1; Length 15; Best Local Similarity 86.7%; Pred. No. 5.1e+02; Matches 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 BP; 0 A; 0 C; 9 G; 6 T; 0 U; 0 Other;
                                                                                       Blackburn EH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kras target oligonucleotide molecule.
                                                                                                                                                                                                                                                    Example 13; Fig 18B; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1248 CGACCCCATCCCCAA 1262
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADD14900 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAACCCCAACCCCAA 1
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                                                                                        Wright
WEST M D.
SHAY J.
WRIGHT W.
BLACKBURN E H.
                                                                                                                          WPI; 2003-066896/06.
                                                                                        West MD, Shay J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2003082601-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-MAY-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15
                                   (WRIG/) W
   WEST/)
                                                                                                                                                                                                                   length.
                      SHAY/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 887
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WO9417086-A1

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The invention discloses a method for reading microarray devices having addressable electrodes to determine binding between a capture probe addressable electrodes to determine binding between a capture probe molecule (CM) and a target molecule. The method comprises providing an molecule (CM) and a target molecule. The method comprises providing an corresponding to the electrodes, non-specifically attaching an coxidation/reduction enzymatic moiety none or multiple daministering the prespect tample to the atray and allowing for binding of the target molecule to CM, adding a substrate to the array that will create a local voltage signal when catalysed by the oxidation/reduction enzyme through local generation of electrochemical reagents and measuring for the presence or absence of a voltage signal generated locally by electrochemical reagents at each electrode having a capture molecule trached to it. The array further comprises a porous reaction layer, made thickness of 0.1-10 microns and functions to block diffusion of oxidation expected to it. The array further comprises a porous reaction layer has a captucion activity products such that there is little lateral signal reduction activity products such that there is little lateral signal compliance oxidase, alkaline phosphatase, dehydrogenases and their combinations, and is attached to the target molecule is combinations, and is attached to the target molecule is combination of oxidation or the capture molecule is chosen from oligonucleotides, polypeptides, and mixed molecules such that middle combinations and is attached to the target molecule is combinativy of the above mentioned molecules. The method is useful for plurality of the above mentioned molecules. The method is useful for traget molecules, and mixed molecules and mixed molecules of plurality of the above mentioned molecules. The method is useful for plurality of the above mentioned molecules, material ones, salt anions, cations or their combinations. The sequence presented is the kraget molecules actio
                                                                                                    Reading a microarray devices comprises providing an array, attaching an oxidation/reduction enzyme to a target molecule, applying the target molecule and an enzyme substrate to the array, and measuring a voltage
                                                                                                                                                                                                                                            Disclosure; SEQ ID NO 1; 26pp; English
                                                     WPI; 2003-777201/73.
Dill K;
                                                                                                                                                                                             signal.
#X#X####X#X9999999999999999999999999
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Sequence 15 BP; 2 A; 8 C; 2 G; 3 T; 0 U; 0 Other;

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                                                   Gaps
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0
Query Match 0.5%; Score 11.8; DB 1; Length 15; Best Local Similarity 86.7%; Pred. No. 5.1e+02; Matches 13; Conservative 0; Mismatches 2; Indels
                                                   13; Conservative
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1132 TICACCICCAGCICC 1146 TACGCCTCCAGCTCC 15

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AAQ70682 standard; DNA; 16 BP. 25-MAR-2003 15-MAR-1995 AAQ70682; RESULT 888 AAQ70682

Triplex forming oligonucleotide directed against Erb-B2 gene. (revised)
(first entry)

Exb-B2; upstream region; regulatory element; gene expression; triplex; antisense; inhibition; screening; identification; cancer; breast cancer; carcinoma; breast cancer; erythroleukaemia; sarcoma; ss.

synthetic.

The Erb-B2 gene has a purine rich segment with substantial mirror symmetry. This sequence, derived from the Erb-B2 gene is located 69 mucleotides upstraem of the transcriptional start site and is the potential site of H-DMA formation. The overexpression of Erb-B2 is particularly associated with breast cancer. This triplex forming oligonucleotide directed against Erb-B2 and its derivatives may be used in the treatment of breast cancer, erythroleukaemia and sarcoma and more generally any disease involving the expression of Erb-B2. (Updated on 25-MAR-2003 to correct PN field.) Gaps . Composition for decreasing gene transcription - comprises oligo:nucleotide or deriv. complementary to target gene region. 0.5%; Score 11.8; DB 1; Length 16; 16.7%; Pred. No. 6.2e+02; ve 0; Mismatches 2; Indels Sequence 16 BP; 1 A; 10 C; 0 G; S T; 0 U; 0 Other; Claim 12; Page 43; 71pp; English. 94WO-US000348 93US-00008897 86.7%; Query Match
Best Local Similarity 86.7;
Matches 13; Conservative (APOL-) APOLLON INC WPI; 1994-264018/32 Lu M; 10-JAN-1994; 25-JAN-1993; 04-AUG-1994. Yoon K,

AAT01926 standard; DNA; 16 AAT01926; RESULT 889 AAT01926

(first entry)

03-AUG-1999

1126 TCCACCTTCACCTCC 1140

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16S rRNA; KK01; primer; PCR; amplification; probe; hybridisation; P.cepacia 16S rRNA gene detection primer #47. detection; diagnosis; ss. Synthetic. Burkholderia cepacia. JP07255486-A 09-OCT-1995.

94JP-00051739 94JP-00051739 WPI; 1995-378541/49. (CANO) CANON KK. 23-MAR-1994; 23-MAR-1994;

Pseudomonas cepacia KK01 strain 165 rRNA gene - also related probes and primers, useful for specific detection of P.cepacia strain KK01.

Claim 6; Page 3; 21pp; Japanese

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                                                                                                                                                                   (EURO-) EURONA MEDICAL AB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unidentified
                                                                     Homo sapiens
                                                                                      WO9845477-A2
                                                                                                                             01-APR-1998;
                                                                                                                                               04-APR-1997;
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                                                                                                          15-0CT-1998
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                                                          Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                             Pseudomonas cepacia KK01 strain 16S rRNA gene - also related probes and primers, useful for specific detection of P.cepacia strain KK01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequences AAT01880-T02316 represent fragments of the 16S rRNA gene of Pseudomonas cepacia strain KK01 (AAT01866) which are useful as primers and probes for the specific detection of P.cepacia strain KK01
Sequences AAT01880-T02316 represent fragments of the 16S rRNA gene of Pseudomonas cepacia strain KK01 (AAT01866) which are useful as primers and probes for the specific detection of P.cepacia strain KK01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                               Gaps
                                                                                                                                                                                                                                               168 rRNA; KK01; primer; PCR; amplification; probe; hybridisation; detection; diagnosis; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 11.8; DB 1; Length 16; 86.7%; Pred. No. 6.2e+02; 2; Indels cive 0; Mismatches 2; Indels
                                                         0.5%; Score 11.8; DB 1; Length 16; 86.7%; Pred. No. 6.2e+02; Live 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Seguence 16 BP; 4 A; 3 C; 6 G; 3 T; 0 U; 0 Other;
                                       Seguence 16 BP; 4 A; 2 C; 7 G; 3 T; 0 U; 0 Other
                                                                                                                                                                                                                              P.cepacia 16S rRNA gene detection primer #55.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 6; Page 3; 21pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Primer ACE/108RB for human ACE
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                                                                                                  823 GAGTGCACGAAGTTG 837
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                                                                                                                   GAGTGCATGAAGCTG 15
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                                                                                                                                                                    AAT01934 standard; DNA; 16
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                                                                               13; Conservative
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                                                                                                                                                                                                                                                                              Synthetic.
Burkholderia cepacia.
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                                                                       Sest Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                       (CANO ) CANON
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                                                                                                                                                                                                                                                                                                                                                                     23-MAR-1994;
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                                                                                                                                                                                                                                                                                                                               09-OCT-1995.
                                                                                                                                                                                                                                                             detection;
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                                                                                                                                                                                        AAT01934;
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                                                            Query Match
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This sequence represents a PCR primer for the human ACE (angiotensin converting enzyme) gene, and can be used in the method of the invention. The method of the invention. The method of the invention of the inve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Assessing cardiovascular status in humans by polymorphic analysis - of genes for angiotensin converting enzyme, angiotensinogen and angiotensin II receptor, used to diagnose predisposition to disease and to predict effect of therapy.
PCR primer; human; ACE; angiotensin converting enzyme; angiotensinogen; cardiovascular status; AGT; AT1; type 1 angiotensin II receptor; stroke; polymorphic pattern; blood pressure; electrocardiographic profile; cardiac condition diagnosis; myocardial infarction; atherosclerosis; hypertension; cardiovascular disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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This invention describes a novel method for identifying organisms by comparative genetic analysis which comprises polymerase chain reaction (PCR) amplification and subsequent genotyping and analysis of coding and/or non-coding regions, and/or functionally significant regions of highly conserved genes and/or their homologs, and/or their coDNA copies and/or their pseudogenes. The method is used for identifying animals and plants and their relatedness (phylogenetic analysis) and identifying provides rapid, simple and reproducible determination of the sequence provides rapid, simple and reproducible determination of the sequence within a selected gene region. It amplifies sequences from a wade variety of species, producing an amplicon that includes a region with high divergence between species. Since the region amplified is relatively small, even badly degraded DNA can be analysed
                                                                                                                                ng organisms by comparative genetic analysis, useful e.g. in forensic testing, comprises genotyping regions of highly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Angiotensin-converting enzyme gene; ACB; polymorphism; polymorphic marker; cardiovascular disease; myocardial infarction; unstable angina; hypertension; atherosclerosis; stroke; prognosis; drug screening; treatment outcome; human; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human angiotensin-converting enzyme (ACE) PCR primer, SEQ ID NO:9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match

0.5%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 6.2e+02;
Matches 13; Conservative 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 16 BP; 2 A; 1 C; 10 G; 3 T; 0 U; 0 Other;
                                           Goergens H;
                                         Koufaki ON,
                                                                                                                                                                                                                            Claim 19; Page 31; 97pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA38209 standard; DNA; 16 BP.
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98US-0104302P.
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                                           Schackert HK, Hahn M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-318010/27.
                                                                                       WPI; 2000-587538/55.
                                                                                                                                                                                conserved genes.
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(HAHN/) HAHN M.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-OCT-1999;
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14-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention describes a novel method for identifying organisms by comparative genetic analysis which comprises polymerase chain reaction (PCR) amplification and subsequent genotyping and analysis of coding and/or non-coding regions, and/or functionally significant regions of highly conserved genes and/or their homologs, and/or their conserved genes and/or their homologs, and/or their collaboration of method is used for identifying animals and plants and their relatedness (phylogenetic analysis) and identifying provides rapid, simple and reproducible determination of the sequence provides rapid, simple and reproducible determination of the sequence within a selected gene region. It amplifies sequences from a wide variety of species, producing an amplicon that includes a region with high divergence between species. Since the region amplified is relatively small, even badly degraded DNA can be analysed
                                                                                                                                                                                                                                                                                                                                                                                       Identifying organisms by comparative genetic analysis, useful e.g. in foods and forensic testing, comprises genotyping regions of highly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 16 BP; 2 A; 1 C; 10 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                  Goergens H;
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                                                                                                                                                                                                                                                                                                  Koufaki ON,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 51; 97pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1245 CTCCGACCCCATCCC 1259
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99DE-01064112.
                                                                                                                                                             99DE-01011656.
99DE-01064112.
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                                                                                                                    16-MAR-2000; 2000WO-EP002330.
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hes 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15 CTCAGACCCCCTCCC 1
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                                                                                                                                                                                                                                                                                                Schackert HK, Hahn M,
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                                                                                                                                                                                                                                 SCHA/) SCHACKERT H K.
                                                                                                                                                                                                                                                                                                                                           WPI; 2000-587538/55.
                                                                                                                                                                                                                                                                                                                                                                                                                                          conserved genes.
                                                                                                                                                                                                                                                         HAHN/) HAHN M.
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                          WO200055361-A2
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31-DEC-1999;
                                                                                                                                                             16-MAR-1999;
31-DEC-1999;
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                                                                        21-SEP-2000
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Best Loca Matches

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RESULT 893 AAA98651,

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Gaps

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The invention relates to a novel method of assessing the cardiovascular catatus in an individual and to newly identified polymorphisms in the genes encoding angiotensin-converting enzyme (ACE), angiotensin of a tatus in an individual and type 2 (ATE), angiotensingen (AGT), renin, addosterone synthase, endothelin receptor type A and beta-adrenergic receptors 1 and 2. The method comprises determining the sequence at one pattern of polymorphic positions within these genes, and comparing the pattern obtained from a population of individual schibiting a predetermined cardiovascular disease status. The polymorphic predetermined cardiovascular disease status is a predetermined cardiovascular disease status of a patient given a predetermined cardiovascular status of a patient given a predetermined cardiovascular status of a patient given a predetermined cardiovascular status of a patient given a predetermine comprising administration of cardiovascular drugs cardiovascular status of a patient regimen comprising administration of cardiovascular and process or cardiovascular status of cardiovascular drugs (e.g., ACE inhibitors, beta-adrenergic receptor antagonists (beta-blockers) or calcium channel blockers). One or more polymorphic markers blockers or antagonists for predicting the outcome of atteatment regimen. Fragments of the genes comprising administration of atteatment regimen. Fragments of primary arrays for high hroughput screening. The polymorphic pattern reduces or individual cardiovascular patient. It also provides the ability to climinates trial and error in adverse response, to a particular calminates trial and error in adverse response, to a particular calminates patients from clinical trials who are predicted to a particular calminates patients from clinical trials who are predicted to a particular correlated with a sub-populations from the treatment group. Beneficial or cartalated with a sub-populations from the reatment group. Beneficial correlated with a sub-population of the test population, because the Example 1; Page 48; 126pp; English. %X656666666666666666666666666666666666888

Sequence 16 BP; 1 A; 9 C; 2 G; 4 T; 0 U; 0 Other; sequence determination

1237 GCCCTCGCCTCCGAC 1251 1 GCCCTCGCCTCTCAC 15 à

AAA66972 standard; DNA; 16 BP. (first entry) 19-OCT-2000 AAA66972; RESULT 895 AAA66972/

Human leukocyte antigen A allele DNA probe A555T SEQ ID NO:30.

Human leukocyte antigen; HLA; class I allele type; probe; PCR primer; amplification; hybridisation; organ transplant; gene typing; diagnosis;

Homo sapiens.

WO200031295-A1

99WO-JP005527 07-OCT-1999;

26-NOV-1998;

(SHIO) SHIONOGI & CO LTD.

Kaneshige T; Moribe T,

WPI; 2000-400097/34.

Simple, rapid and accurate method for distinguishing HLA class I allele type with possibility of mechanization and automation, applicable in judging donor-recipient compatibility during organ transplant and disease diagnosis.

Claim 8; Page 56; 83pp; Japanese.

The present invention describes a method for distinguishing a human leukocyte antigen (HLA) class I antigen or allele by a combination of polymerase chain reaction (PCR) using a primer pair whereby all HLA-A, -B or -C alleles can be amplified or using reverse hybridisation analysis comprising a DNA probe covalently bonded to microtitre plate wells which are hybridisable specifically with the base sequence of at least one specific mh.A-A. -B or -C allele. The method is applicable in gene typing, judging donor-recipient compatibility during organ transplant and correlation analysis for diagnosis of various diseases. The method is sumple, rapid and accurate, with possibility of mechanisation and automation, without the problems encountered by using the prior-art techniques. AAA666943 to AAA67072 represent oligonucleotide probes and PCR primers for use in the method of the present invention

Sequence 16 BP; 3 A; 4 C; 5 G; 4 T; 0 U; 0 Other;

Gaps ö Query Match 0.5%; Score 11.8; DB 1; Length 16; Best Local Similarity 86.7%; Pred. No. 6.2e+02; Matches 13; Conservative 0; Mismatches 2; Indels

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AAC61209 standard; DNA; 16 BP. AAC61209; RESULT 896

(first entry) 30-JAN-2001

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2; Indels

0.5%; Score 11.8; DB 1; Length 16; 86.7%; Pred. No. 6.2e+02;

0; Mismatches

Local Similarity 86.7 ses 13; Conservative

Matches

Query Match

Human ACE, AGT and AT1 genes polymorphisms PCR primer SEQ ID NO: 9. Human, genetic polymorphism, disease diagnosis, treatment, cancer, catdiovascular system, nervous system, glaucoma, PCR primer, ss.

Homo sapiens.

WO200056922-A2. 28-SEP-2000,

99WO-IB000497. 99US-0126243P. 99US-0126046P. 23-MAR-2000; 2000WO-GB001102 23-MAR-1999; 23-MAR-1999; 24-MAR-1999;

Jonsson L, Olaisson E, Norberg LT, (GEMI-) GEMINI GENOMICS AB. Lindstrom PHR,

99US-00471890.

23-DEC-1999;

Sanders

WPI; 2000-638268/61.

Assessing disease status in individual by determining sequence(s) at one

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                                                                                    The present invention is related to methods for determining the polymorphic pattern of an individual and using the results to determine their risk of a number of diseases, including cancer, cardiovascular diseases, glaucoma and nervous system disorders such as depression and neurodegenerative diseases. In addition, the methods can be used to determine the effects of different types of treatment for individuals, and thus enables appropriate therapies to be prescribed. THe PCR primers shown in sequences AAG61201-C61371 were all used to demonstrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mod_base= OTHER //node= "The SY40 large T-antigen NLS sequence is linked to the 5' thymine residue by 2 copies of the 8-amino-3.6-dioxacctanoic acid linker"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /*tag= c
/mod_base= OTHER
/note= "Nucleotides 8 and 9 are separated by 3 copies of
the 8-amino-3.6-dioxaoctanoic acid linker"
 or more polymorphic positions within the human genes encoding the protein(s) involved in physiological pathway associated with treatment
                                                                                                                                                                                                                                                                                                            Gaps
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/mod_base= OTHER
/note= "C and T are the cytosine and thymine PNA
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0.5%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 6.2e+02;
Matches 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gene therapy vector; cell entry; intracellular trafficking; gene expression; PNA; peptide nucleic acid; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Woodle M, Cheng C, Puthupparampil S, Subramanian K,
Yang J, Frei J, Mett H, Stanek J;
                                                                                                                                                                                                                                            Sequence 16 BP; 1 A; 9 C; 2 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Peptide nucleic acid NLS peptide bound DNA 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NOVS ) NOVARTIS AG. (NOVS ) NOVARTIS-ERFINDUNGEN VERW GES MBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                          Example 1; Page 55; 141pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                              BP
                                                                                                                                                                                                                                                                                                                                      1237 GCCCTCGCCTCCGAC 1251
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                                                                                                                                                                                                                                                                                                                                                                   GCCCTCGCCTCTCAC 15
                                                                                                                                                                                                                                                                                                                                                                                                                                            AA166199 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         analogues"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                            methods of the invention
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/*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modified base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAI66199;
                             regime
                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 897
                                                                                                                                                                                                                                                                                                                                                                                                                                 AAI66199
g
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The invention relates to a non-naturally occurring gene therapy vector, comprising an inner shell having a core complex containing a nucleic acid and at least one complex forming reagent. The vectors are stable having an improved outer steric layer that provides enhanced target specificity, in vivo and colloidal stability. The vectors are relatively homogeneous and comprise chemically defined species. The vectors demonstrate improved cell entry and intracellular trafficking, permitting enhanced nucleic sit that of a peptide nucleic as that of a peptide nucleic acid therapeutic activity such as gene expression. The present sequence is that of a peptide nucleic acid. The present sequence is linked to the SV40 large T-antigen NLS sequence (AAM51435)
                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                               Non-naturally occurring gene therapy vector useful for gene therapy, comprises an inner shell having a core complex containing a nucleic acid and at least one complex forming reagent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Determining sequence variation in, or monitoring expression of genes in target nucleic acid for high-throughput genotyping of (un)known polymorphisms/mutations, comprises hybridization pattern differences
                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-acetyltransferase 2; NAT2; human; genotyping; SNP; G191A; probe; single nucleotide polymorphism; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag= a
/standard_name= "Single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-acetyltransferase 2 (NAT2) G191A SNP hybridisation probe #1.
                                                                                                                                                                                                                                                                                                                                                                                         Score 11.8; DB 1; Length 16; Pred. No. 6.2e+02; 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                     Sequence 16 BP; 0 A; 8 C; 0 G; 8 T; 0 U; 0 Other;
                                                                                                                    Example 49; Page 103; 178pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
replace(8,G)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   polymorphisms/mutations, comprises
between target and probe sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 5; Page 34; 60pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Brennan TM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-MAR-2001; 2001WO-US007775.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-MAR-2000; 2000US-00521983.
10-JUL-2000; 2000US-00613517.
                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 86.7%;
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                          927 ITTAICCCICCICIT 941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAS15504 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (PROT-) PROTOGENE LAB INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cronin MT, Frueh F,
              WPI; 2001-602251/68.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-616243/71.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vaniation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              868
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Gaps

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Length 16;

Score 11.8; DB 1; Length 1 Pred. No. 6.2e+02; 0; Mismatches 2; Indels

. 0

1 Trcaargrrrcgcra 15

948 ITTAATGTATCGCTA

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0.5%;

Query Match
Best Local Similarity 86.7°
Matches 13; Conservative

ABT14523 X888888888888888888888 ð g

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The invention relates to a method of simultaneously determining the presence of 2 or more sequence variations in target nucleic acids, or simultaneously monitoring expression of 2 or more genes. The method comprises determining differences in hybridisation between the target nucleic acid and immobilised probes, where differences in hybridisation between the target nucleic acid and immobilised probes, where differences in hybridisation between indicates sequence variations or transcription levels. The method is used for simultaneously determining the presence or absence of two or more sequence variations in target nucleic acids or simultaneously more sequence variations in target nucleic acids or simultaneously money application of two or more genes in target nucleic acids. The method are applicable to high-throughput genotyping of known and unknown polymorphisms and mutations. The method maximises the information yield of hybridisation-based array applications by increasing the number of informative array-immobilised polymucleotide probes. The present sequence represents N-acetyltransferase 2 (NAMI2) G191A single nucleotide probes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Isolated nucleic acid molecule encoding a P-glycoprotein of rhesus monkey, useful in assays for evaluating bioavailability of drugs, as well as for the optimization or discovery of drugs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rhesus monkey; gene; ds; P-glycoprotein inhibitor; drug bioavailability; P-glycoprotein; P-glycoprotein transporter-related disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ·,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.5%; Score 11.8; DB 1; Length 16; 86.7%; Pred. No. 6.2e+02; ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 16 BP; 2 A; 7 C; 2 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rhesus monkey P-glycoprotein gene region #4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-MAR-2002; 2002WO-US008325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-MAR-2001; 2001US-0277095P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABT14523 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCATGCAGGTTTCTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-075423/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
les 13, Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Macaca mulatta.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 899
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Human, mouse, ss; probe; gene 216; antiasthmatic; antiinflammatory; anorectic; chromosome 20p13-p12; single nucleotide polymorphism; SNP; gene therapy; respiratory disease; actima; obesity; bronchial hyper-responsiveness; chronic obstructive pulmonary disease; adult respiratory distress syndrome; inflammatory bowel syndrome.

Human 216 gene allele specific oligonucleotide probe #47.

(first entry)

25-MAR-2003

ABX75231;

BP.

ABX75231 standard; DNA; 16

RESULT 900

Del Mastro RG;

Dupuis J,

Van Eerdewegh P,

Little RD, Van Eer Allen K, Pandit S;

Keith T, Simon J,

WPI; 2003-092960/08

(SCHE) SCHERING CORP. (GENO-) GENOME THERAPEUTICS CORP.

13-APR-2001; 2001US-00834597. 15-APR-2002; 2002WO-US012063.

WO200283077-A2. Homo sapiens.

24-OCT-2002.

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This invention relates to a novel isolated nucleic acid, gene 216, identified from human chromosome 20p13-p12. The invention also discloses regions of the 216 gene that contain single nucleotide polymorphisms (SNP'S) which may be used as markers for disease usceptibility or severity. The nucleotides of the invention may have antiasthmatic, antinflammatory or anorectic activities and may be used in gene therapy. The nucleic acids, antibodies or its fragments are used in gene therapy. Preventing or treating a disorder, such as respiratory diseases (e.g. asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary disease or adult respiratory distress syndrome), obserity, or inflammatory bowel syndrome. The nucleic acids are also useful for identifying increased susceptibility of a subject to the disorders mentioned. The nucleic acids can also be used as primers and templates for the recombinant production of disorder-associated peptides or polypeptides, for chromosome and gene mapping, or for tissue distribution studies. The present sequence represents a gene 216 specific oligonucleotide probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated gene 216 nucleic acids, useful for diagnosing, preventing or treating a disorder, such as asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary disease, obesity or inflammatory bowel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 16 BP; 1 A; 1 C; 10 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 11.8; DB 1;
Pred. No. 6.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 10; Page 166; 650pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the scope of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
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The invention comprises the amino acid and coding sequence of a rhesus monkey (Macaca mulatta) P-glycoprotein and related P-glycoproteins. The DNA and protein sequences of the invention are useful in assays for evaluating the bioavailability of drugs, as well as the optimisation or discovery of drugs for the treatment of disease associated with P-glycoprotein transporter activity. The present DNA sequence represents part of the gene encoding the Rhesus monkey P-glycoprotein

Example 1; Page 40; 103pp; English.

BP; 3 A; 3 C; 2 G; 8 T; 0 U; 0 Other;

Sequence 16

ADE43627

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Gaps

.. 0

Indels

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Mismatches

·.

Conservative

13;

Matches

ADD07218;

RESULT 901

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The present invention relates to a method (MI) for determining a predisposition for or the occurrence of neurodegenerative disease in a subject The method comprises detecting in a target nuclaic acid obtained from the subject the presence or absence of an allelic variant of one or more polymorphic regions of one or more genes selected from upA (Urokhase plasminogen activator), SNGG (gamma-symuclein), IDE (insulindegrading enzyme), KNSLI (Kinesin-like protein 1), ILPA (lysosomal acid lypase), and TNPRSF6 (Tumour Necrosis Factor Receptor-SF6), where the polymorphic regions is indicative of a predisposition for or the occurrence of neurodegenerative disease. The genes are all located on chromosome 10. MI is useful for determining a predisposition for or the occurrence of, and for treating neurodegenerative disease, particularly Alzheimer's disease. The present sequence is a PCR primer, which was used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Determining a predisposition for or the occurrence of neurodegenerative disease, e.g. Alzheimer's disease by detecting in a target nucleic acid the presence or absence of an allelic variant of one or more polymorphic regions.
                                                                                                                                                                                                                                                                                      Neurodegenerative disease, uPA, SNCG, IDE, KNSL1, LIPA, TNFRSF6, Alzheimer's disease, neuroprotective, nootropic, gene therapy, Chromosome 10, PCR, primer, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.5%; Score 11.8; DB 1; Length 16; 86.7%; Pred. No. 6.2e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Elliott KJ, Wang X, Ta
Sampson AJ, Blacker DL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Segmence 16 BP; 2 A; 7 C; 3 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                       Human KNSL1 PCR primer, SEQ ID 232.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-OCT-2001; 2001US-0339525P.
08-NOV-2001; 2001US-0336929P.
08-NOV-2001; 2001US-0338010P.
09-NOV-2001; 2001US-0338383P.
04-DEC-2001; 2001US-0337052P.
ADE43627 standard; DNA; 16 BP
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ADB43905/c
ID ADB43905 standard; DNA; 17
                                                                                                                                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (NEUR-) NEUROGENETICS INC. (GEHO ) GEN HOSPITAL CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Velicelebi G,
, Mullin KM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2003054143-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Becker KD, V
Saunders AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-OCT-2001;
                                                                                                                                             29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-JUL-2003.
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                                                                          ADE43627;
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Matches
NOT COURSE WAS A STANDARD WAS A STAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to treating viral infection or reactivation comprising contacting an individual with an antagonist of the interaction between a Herpes Simplex virus (HSV) polymolectide sequence appearing as ADD07153 and interferon regulatory factor—1 (HRF-1, a transcription factor of the interferon regulatory pathway). Also included are an isolated HSV polymolectide comprising a HSV polymolectide comprising a HSV polymolectide involved in viral infection or reactivation, correcting computed compounds capable of inhibiting specific binding of IRF-1 to a polymuclectide, screening for compounds capable of inhibiting specific binding of IRF-1 to IRF-1:HRF-BP (Undefined) complex, a compound capable of agonising or antagonishing any compound in IRF-1 and/or interferon or genetic regulatory pathway and a composition for comprising an HSV IRF-1 binding site consensus sequence. The method is useful for treating infections and for cytomegalovirus, Epstein. Barr virus and zoster virus infection. The HSV polymeptide and polymucleotides may also be useful as IPF-1 binding site of the infection or reactivation caused by Harpes virus, e.g., HSV-1 or HSV-2 infections. The HSV polymeptide and polymucleotides may also be useful as IPF-1 binding site of the infection or reactivation send composition and doster virus infection. The HSV polymeptide and polymucleotides may also be useful as IPF-1 binding site of the infection or reactive infections and doster virus infections.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Treating infection or reactivation caused by Herpes virus comprises using antagonist of Herpes Simplex virus polynucleotide sequence and interferon regulatory factor-1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ds; interferon regulatory factor; IRF-1; IRF-2; herpes; antiviral; transcription factor; virucide; vaccine; interferon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 16 BP; 2 A; 4 C; 2 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; SEQ ID NO 66; 53pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zoster virus IRF-1 binding site #25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SMIK ) SMITHKLINE BEECHAM CORP.
                       1058 CCCCAAACCCAAGCT 1072
                                                                                                                                                                                                                                                                                      BP.
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                                                                                                                                                                                                                                                                              ADD07218 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                 15 cccccaacccaacr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human herpesvirus 3.
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Bertram L;

Tanzi RE,

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Query Match

Best Loca Matches

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RESULT 902

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29-MAY-2002 (first entry)

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primer; probe; tumour suppression; tumour reversion; apoptósis;
virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;
                                                                                                                                                                                                                                                                    New nucleic acid encoding human prostate membrane-specific antigen, useful e.g. for treatment of tumors and viral infection, also related polypeptide and antibodies.
                                                                       cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;
                                                      Tumour suppression/reversion associated nucleotide #4228.
                                                                                                                                                                                                                                                                                                         Disclosure; Page 526; 771pp; French.
                                                                                                                                                                                                                                  Tuijnder M;
                                                                                                                                                                                                               (MOLE-) MOLECULAR ENGINES LAB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       expression of the nucleotides.
                                                                                                                                                                           .7-SEP-2002; 2002WO-IB004219.
                                                                                                                                                                                            17-SEP-2001; 2001FR-00011981.
                          (revised)
(first entry)
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                                                                                                                                      WO2003040369-A2
                                                                                                                     Homo sapiens.
                                                                                                                                                         15-MAY-2003.
                         18-DEC-2003
                                   04-DEC-2003
                                                                                                   diagnosis.
        ADB43905;
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fragments of at least 15 consecutive nucleotides of these nucleotides, a fragments of at least 15 consecutive nucleotides of these nucleotides, a sequence having at least 80% identity, after optimal alignment, with the nucleotides, or the complement, or corresponding RNA, of the nucleotides. The nucleotides are used as probes or primers for detecting, identifying quantifying and/or amplifying nucleic acids, as in vitro sense and antisense sequences, of nucleotides involved in tumour suppression or reversion, apoptosis and or viral resistance, to produce recombinant polypeptides, and to prepare transgenic animals, as experimental models. The nucleotides (also vectors containing them and cells containing the vectors), the encoded polypeptides and antibodies (Ab) against the polypeptide are useful for prevention and/or treatment of viral infections or diseases characterized by development of tumours or cell degeneration (e.g. Alzheimer's disease or schizophrenia).

Analysis of the expression of the nucleotides can be used for diagnosis and/or prognosis of these diseases. The nucleotides and polypeptides can labo be used to screen for their specific interactive molecules, the nucleotides can be used for diagnosis or containing the vectors or their specific interactive molecules.

0.5%; Score 11.8; DB 1; Length 17; 36.7%; Pred. No. 7.4e+02; ve 0; Mismatches 2; Indels 2; Indels Sequence 17 BP; 1 A; 7 C; 1 G; 8 T; 0 U; 0 Other; 86.78; Query Match
Best Local Similarity 86.7
Matches 13; Conservative

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364 AGGGAGAAGAGAGAT 378 16 AGGAAGAAGAGGGAT

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ABN08363 standard; DNA; 17 RESULT 904 ABN08363 BXXX

ABN08363

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Human, genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8355.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-0CT-2000; 2000GB-0024263; 30-JAN-2001; 2001WO-US000662. 30-JAN-2001; 2001WO-US000663. 30-JAN-2001; 2001WO-US000664; 30-JAN-2001; 2001WO-US000665; 30-JAN-2001; 2001WO-US000666; 30-JAN-2001; 2001WO-US000666; 30-JAN-2001; 2001WO-US000666; 30-JAN-2001; 2001WO-US0006669; 30-JAN-2001; 2001WO-US0006669; 30-JAN-2001; 2001WO-US000669; 30-JAN-2001; 2001WO-US000669; 05-FEB-2001; 2001WS-0266860P.
                                                                                                                                                                                                                                                                                                                                                                                   25-MAY-2001; 2001WO-US016981
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2000US-0236359P
                                                                                                                                                                                                                                                      WO200192524-A2
                                                                                                                                                                                         Homo sapiens
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Shannon ME; Chen W, Rank DR, Hanzel DK, Gu Y, Ji Y, Penn SG, WPI; 2002-179446/23.

(AEOM-) AEOMICA INC

New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.

Disclosure; SEQ ID NO 8355; 214pp; English.

The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used as probes to detect, characterise and quantify and vaccine production. The hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP add/or amount specifically of hGDMLP proteins, as specific biomolecule and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser describing the concentration and/or amount supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The production and and skeletal muscle discreters an oligomer used in the screening of the horsent sequence represents an oligomer used in the screening of the horsent energy in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO

0.5%; Score 11.8; DB 1; Length 17; 86.7%; Pred. No. 7.48+02; tive 0; Mismatches 2; Indels Seguence 17 BP; 5 A; 2 C; 9 G; 1 T; 0 U; 0 Other; Similarity Query Match Best Local S: Matches 13

13; Conservative

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Gaps

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ABT35836;

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The present invention relates to novel human zinc finger-containing proteins and their coding sequences: MDZ3, MDZ4, MDZ12, MDZ3 is cancoded at chromosome 7422.1, MDZ4 is encoded at chromosome 6921.3-22.2, MDZ7 is encoded at chromosome 6921.3-22.2, MDZ7 is encoded at chromosome 6921.3-22.2, MDZ7 is encoded at chromosome 1691.2 and MDZ12 is encoded at chromosome corrections of manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosing or monitoring a disease caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic acids can also be used as probes to detect and characterize gross alterations in MDZ3, MDZ4, MDZ7, or MDZ12, county of MDZ3, MDZ4, MDZ7, or MDZ12. The probes are useful in constructing microarrays for measuring gene expression. The proteins are useful as therapeutic agents for gene therapy or as proteins. The present sequence was used to illustrate the invention.
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                                                                                                                                                                                                                                                                                               Cytostatic; immunostimulant; gene therapy; vaccine; human;
zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;
chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
developmental disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7 or MDZ12, e.g. cancer.
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                                                                                                                                                                                                                                                           Human MDZ7 scanning oligonucleotide SEQ ID 5329.
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ABT35836/c
ID ABT35836 standard; DNA; 17 BP.
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1713 GCAAGCAGGAGCTAG 1727
                                                                                                                                      ADB04343 standard; DNA; 17 BP.
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                                                                                                                                                                                                                (first entry)
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                                  1 GCAAGGAGGAGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-423107/40.
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                                                                                                                                                                                                                  20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
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The invention relates to a novel isolated 17 mer nucleic acid sequence, containing at least 15 consecutive nucleotides from the 17 mer sequence containing at least 15 consecutive nucleotides from the 17 mer sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one coids of the invention are useful as probes and primers for detecting, identifying action of recombinant polypeptides. Any of the nucleic acids, production of recombinant polypeptides. Any of the nucleic acids, production of paramaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell diseases that are characterised by development of tumours or cell diseases that are characterised by development of tumours or cell diseases. The polypeptides can also be used to generate antibodies and antibodies are useful as components of these contents. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression can be used the unant fukutin oligonucleotide of the invention
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                                                                                                                                Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.
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0
                                                                                           Tumour suppression related human fukutin oligo SEQ ID No 1473
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86.7%; Pred. No. 7.4e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 17 BP; 1 A; 4 C; 5 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 205; 720pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tuijnder M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAV10706 standard; DNA; 19 BP.
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                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                     WO2003025175-A2.
                                                                                                                                                                                                                                  Homo sapiens
                                                     12-JUN-2003
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Matches
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABF00010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
                                                                                                                                                                           Set of oligonucleotides, useful for diagnosis and cell typing, i
designed to detect single-nucleotide polymorphisms and cytosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligonucleotide SEQ ID NO 131849 for detecting SNP TSC0032916.
                                                                                                                                                                                                                                                                Claim 1; SEQ ID NO 131850; 29pp + Sequence Listing; German.
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0.5%; Score 11.6; DB 1;
Best Local Similarity 91.7%; Pred. No. 3.7e+02;
Matches 11; Conservative 1; Mismatches 0;
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                 07-APR-2000; 2000DE-01019173
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                                                                                              Piepenbrock C,
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                                                         (EPIG-) EPIGENOMICS
                                                                                                                                     WPI; 2001-657177/75
                                                                                                                                                                                                                         methylation status.
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                                                                                                  olek A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV10702-V10719 are primers used in a method to identify the novel human becast cancer gene CH1-2 by differential display. The identified genes or fragments of these genes can be used for identifying genes and gene products that are intimately related to malignant transformation or maintenance of the malignant properties of cancer cells. It can also be used to design or screen dispnostic reagents or therapeutic compounds. Kits are included within the scope of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                  Breast cancer; malignant transformation; diagnostic; therapeutic;
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                                                           Human breast cancer gene CH1-9al1-2 primer pch1-t7-5f
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CALP-) CALIFORNIA PACIFIC MEDICAL CENT RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Fig 7; 118pp; English.
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96US-0019202P.
96US-00678280.
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                 21-JUL-1998 (first entry)
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Les 13; Conservative
                                                                                                                          screening; primer; ss
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Length 13;

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                            This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic (SNP) represented genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                 . Match 0.5%; Score 11.6; DB 1; Length 13; Local Similarity 91.7%; Pred. No. 3.7e+02; tes 11; Conservative 1; Mismatches 0; Indels
   Claim 1; SEQ ID NO 131849; 29pp + Sequence Listing; German.
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                                                                                                                                                                                                                                        Sequence 13 BP; 7 A; 0 C; 3 G; 2 T; 0 U; 1 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                       Score 11.6; DB 1; Length 13; Pred. No. 3.7e+02; 1; Mismatches 0; Indels
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Sequence 13 BP; 3 A; 7 C; 0 G; 2 T; 0 U; 1 Other;
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1 Similarity 91.7%;
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                                                                 Query Match
Best Local
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AAS19718;

RESULT 912

AAS1971

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This sequence represents a PCR primer for the FWR1 gene. This sequence was used to amplify Fragile XA related alleles from the FWR1 gene. The invention relates to a method for characterising a GC rich region of a nucleic acid comprising contacting the nucleic acid with an agent that modifies C or G into residues complementary to A or T, amplifying (at least part of) the resultant modified nucleic acid, and determining the size of the amplification product. The methods and kits for carrying to the methods are useful for characterising GC rich nucleic acids. This is particularly useful for diagnosing trinucleotide repeats associated with regions (FRAXB), spinal and bulbar muscular atrophy (SMBA), myotonic dystrophy (DM), Huntington's disease (HD), spinal and pulbar muscular atrophy (SMBA), myotonic dystrophy (DM), Huntington's disease (HD), spinal and contaction (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE-KR) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE) and cataxia type 1 (SCA1), fragile XE mental retardation (FRAXE).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Characterizing GC rich regions of a nucleic acid comprising modifying GC residues into residues complementary to A or T, and amplifying the modified product, useful for diagnosing trinucleotide repeats.
Huntington's disease; DM; HD; spinocerebellar ataxia type 1;
fragile XE mental retardation; dentatorubral pallidoluysian atrophy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human, growth hormone 1; GH-1; single nucleotide polymorphism; SNP; gene therapy; PCR; primer; s8.
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Best Local Similarity 77.8%;
Matches 14; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Navot N, Lederkremer M;
                                                                                                                                                                                                                                                                                                                                                                   (GAMI-) GAMIDA GEN LTD. (FRIE/) FRIEDMAN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-482916/42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO2003042226-A2.
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                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                             25-JAN-1999;
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                                                                                                                                                                                               27-JUL-2000.
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0
                                                                                                                                                                                                                                                                            Human; single nucleotide polymorphism; SNP; RANGAPI; haplotyping chromosome 22q13.2-q13.31; Ran GTPase activating protein 1; genotyping; cancer; irregular cell cycle associated disorder; ASO; probe; ss; allele-specific oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to novel single nucleotide polymorphisms (SNPs) in the human Ran GTPase activating protein 1 (RANGAPI) gene (GNPs) in the human Ran GTPase activating protein 1 (RANGAPI) gene denotyping the RANGAPI gene. The methods of the invention make use of allele-specific oligonucleotides (ASOs) as probes and primers and/or polymorphisms. The polymucleotides for detecting the RANGAPI gene treatment of diseases associated with RANGAPI activity, such as cancer and other disorders associated with RANGAPI activity, such as cancer AASI9742 represent ASO probes for detecting human RANGAPI gene polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer; FWR1 gene; fragile XA related allele; GC rich region; FRAXA; diagnosis; trinucleotide repeat; Fragile XA syndrome; FRAXE-MR; SMBA; spinal and bulbar muscular atrophy; myotonic dystrophy; DRAPLA; SCAl;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genotyping human Ran GTPase activating protein 1 gene of individual for determining haplotype of individual, involves determining identity of nucleotide pair at specific polymorphic sites for two copies of the gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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                                                                                                                                                                                                                          probe #15 to detect human RANGAP1 gene polymorphisms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 15 BP; 2 A; 7 C; 3 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 15; Page 14; 148pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer PFX52U for FMR1 gene.
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                                                              BP.
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                                                        AAS19718 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCCCCGCAGAG 1192
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Choi JY,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200179240-A2.
                                                                                                                                                                       08-MAY-2002
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Query Match

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cc zinc finger), jjAZ1 (joined with jAZF1) or jAZF1/jjAZ1 polypeptide. The methods of the invention can be used to identify a compound which controls proliferation of endometrial stroma, by expressing jjAZ in the presence of the compound, and determining whether the compound affects expression of jjAZ. jAZFN, jjAZ1 or jAZF1/jjAZ1 polypeptides are useful cexpression of jjAZ. jAZFN, jjAZ1 or raise or test anti-jAZF1, jjAZ1 or to jAZF1/jjAZ1 antibodies. The invention can be used as bait proteins in a cup whybrid assay or three hybrid assay to identify other proteins in a cup or interact with jAZF1/jjAZ1-binding proteins. jAZF1, jjAZ1 or can built and assay or identify other proteins which can tumour marker protein to verify that a stromal tumour is from a tumour marker protein to verify that a stromal tumour is from cor pregnancy, and also for treating endometrial stromal tumours. The coresent nucleic acid sequence represents a PCR primer that was used in the methods of the invention for amplification of the human jAZF1 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A novel fusion protein comprises 2 dimer forming co-expressed amino acid sequences, each consisting of a homodimeric or heterodimeric receptor chain or ligand, with ligand-receptor binding activity, bound directly or via a peptide linker to a submint of a heterodimeric protein hormone capable of forming a heterodimer with the hormone's other submits. The fusion protein, e.g. the thrombopoietin (TPO)/human chorionic gonadotrophin (hCG) fusion protein encoded by the fusion gene amplified by the present sequence, significantly increases the biological activity of the hormone component, reducing the requirement for hormone itself and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fusion protein; thrombopoietin; TPO; human chorionic gonadotrophin; hCG; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hybrid dimeric protein comprising two co-expressed units - each based or receptor or ligand and a subunit of a heterodimeric hormone, especially FSH, for inducing follicular maturation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 11.6; DB 1; Length 20; Pred. No. 1.2e+03; 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 3 A; 10 C; 0 G; 7 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1014 TGAAAAGAGGGGGGGCT 1031
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Primer for TPO/hCG fusion gene.
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Best Local Similarity 77.8%;
Matches 14; Conservative
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Homo sapiens.
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AAT94017
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                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to growth hormone 1 (GH-1) gene including single nucleotide polymorphisms (SNP). The GH-1 diagnostic polymucleotide is useful as markers for the analysis of a disease, of susceptibility to drug treatment for GH-1 dysfunction or other diseases, or may be included in any complete or partial genetic map of the human genome. GH-1 mutant polypeptides are useful as antagonists of GH-1 hormone action. Polymucleotides encoding these polypeptides are useful in gene therapy. The present sequence is a PCR primer used for amplifying human GH-1 gene
                                                                                                                                                                                                                                                              New growth hormone 1 (GH-1) diagnostic polynucleotide, useful as markers for the analysis of a disease, or of susceptibility to drug treatment for GH-1 dysfunction or other diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human, jAZF1, juxtaposed with another zinc finger, jjAZ1, jAZF1/jjAZ1, joined with jAZF1, proliferation, endometrial stroma tumour, immunogen, antigen, antibody, fertility, pregnancy, gene therapy, vaccine, PCR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel jAZF1, jjAZ1 or jAZF1/jjAZ1 polypeptides useful as immunogens or antigens to raise or test anti-jAZF1, jjAZ1 or jAZF1/jjAZ1 antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to a new jAZF1 (juxtaposed with another
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 2 A; 9 C; 1 G; 8 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human jAZF1 PCR primer 7SenseInner.
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                                                                                                                                                                                                                                                                                                                                                                         Example 2; Page 30; 74pp; English.
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                                                                                                                                                                     Parodi LA;
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                                                                                                                (PHAA ) PHARMACIA & UPJOHN CO.
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                07-NOV-2002; 2002WO-US035719.
                                                                  09-NOV-2001; 2001US-0347448P
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                                                                                                                                                                   Wood LS, Wagner S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Koontz J, Sklar J;
                                                                                                                                                                                                                   WPI; 2003-449555/42
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This invention describes novel homogeneous insoluble proteins (I), their (in) soluble fragments (Ia) and their salts that can bind tumour necrosis factor (TWP). The products of the invention have anti-inflammatory and antimalarial activity. (I) and (Ia) are used (I) to treat diseases in which TNF is involved (e.g. septic shock, autoimmus glomerulonephritis, cerebral malaria, immune responses and inflammation), (Ii) to purify TNF, (iii) to identify TNF (ant) agonists and (iv) for diagnostic determination of TNF in body fluids. Antibodies raised against (I) are used for affinity purification of (I). This sequence represents a PCR primer used in the amplification of the TNF binding protein of the invention. (Updated on 20-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tumour necrosis factor binding protein; TNF; insoluble protein; agonist; anti-inflammatory; anti-inflammation; septic shock; inflammation; autoimmune glomerulonephritis; cerebral malaria; immune response; antagonist; diagnosis; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New insoluble proteins, and fragments, that bind to tumor necrosis factor, used to treat e.g. septic shock or cerebral malaria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human 55kDa tumour necrosis factor binding protein PCR primer 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.5%; Score 11.6; DB 1; Length 29; llarity 77.8%; Pred. No. 1.7e+03; Conservative 0; Mismatches 4; Indels
                  Sequence 24 BP; 3 A; 14 C; 2 G; 5 T; 0 U; 0 Other;
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                                                             Score 11.6; DB 1;
Pred. No. 1.7e+03;
0; Mismatches 4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HOFF ) HOFFMANN LA ROCHE & CO AG F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 11; Page 16; 25pp; German.
                                                                                                                                                                    301 CTGGAGCTGTTGGTGGGA 318
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90CH-00000746.
90CH-00001347.
90EP-00116707.
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                                                                  0.5%;
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                                                       Ouery Match
Best Local Similarity 77.8°
Matches 14, Conservative
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Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      correct PR field.)
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08-MAR-1990;
20-APR-1990;
31-AUG-1990;
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Schlaeger E;
                                                                                                                                                                                                                                                                                                                                                                                                                                              20-MAR-2003
18-OCT-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  course of the invention for the multimerisation of minimal motifs. The course of the invention for the multimerisation of minimal motifs. The invention provides a method for increasing the resistance of a core protein to proteolytic degradation that comprises linking or inserting onto or into the core protein a stabilising polypeptide of formula control or into the core protein a stabilising polypeptide of formula cand X, Y, Z are Ala, Ser, Val, Ile, Leu, Met, Phe, Pro or Thr and n can be anything between 1-66. X, Y and Z need not be identical from n repeat to n repeat. Alternatively a mulleic acid encoding a stabilising polypeptide can be linked onto or inserted into a mucleic acid encoding polypeptide can be linked onto or inserted into a mucleic acid encoding a core protein. The fusion proteins of the invention are more resistant to degradation by proteases and, thus, have a longer half-life than the unfused core protein. The products can be used for treating autoimmune is laborate, or an interreductase protein which can activate nitro drugs in disease, can diffiammation. In particular, the core protein may be an IkappaB regulator protein for the treatment of inflammatory bowel disease, or a nitroreductase protein which can activate nitro drugs in canyamprofunding therefore or other pathological conditions. The fusion proteins can also be used in diagnostic methods such as in vivo imaging. (Updated on 27-AUG-2003 to correct OS field.)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New fusion proteins resistant to proteolytic degradation - comprising a core protein with a stabilising polypeptide comprising a peptide sequence containing glycine repeats.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fusion protein; stabilising polypeptide; proteolytic degradation; resistance; half-life; autoimmune disease; inflammation; nitro drug; lkappas regulator protein; inflammatory bowel disease; in vivo imaging; nitroreductase protein; enzyme therapy; prodrug therapy; protease; cancer; pathological condition; minimal motif; PCR primer; ss.
                                                                                                                                                  Gaps
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0
                                                                                               DB 1; Length 21;
                                                                                                                                               4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Multimerisation of minimal motifs using primer ZGR2.
                                             Sequence 21 BP; 2 A; 5 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                          Query Match 0.5%; Score 11.6; DB 1; Best Local Similarity 77.8%; Pred. No. 1.4e+03; Matches 14; Conservative 0; Mismatches 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 72; 120pp; English
the number of injections needed
                                                                                                                                                                                                                                         3 regrectreadrecreag 20
                                                                                                                                                                                               35 TGGAGCCTCAGTCCAGAG 52
                                                                                                                                                                                                                                                                                                                                                      817/c
AAV55817 standard; DNA; 24 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human herpesvirus 4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1998-312463/27.
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18-NOV-1998
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Synthetic.

AAV55817;

RESULT 91 AAV55817/

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Loetscher

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schultz451-1.rng

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TNF; tumor necrosis factor binding protein; TNFBP; treatment; insoluble protein; antihflammatory; immunosuppressive; antibacterial; antiprotozoal; treatment; meningococal sepsis; cerebral malaria; autoimmune glomerulonephritis; PCR primer; ss.
                                                                                         Human 55 kD TNFBP extracellular fragment PCR primer 2.
 22
                                                                                                                                                                                                 89CH-00003319.
90CH-00000746.
90CH-0001347.
90EP-00116707.
            29
                                                AAH48858 standard; DNA; 29 BP.
                                                                                                                                                                                     2001EP-00108117
         TGGAGCCTCAGTCCAGAG
                                                                           12-NOV-2001 (first entry)
                                                                                                                                                                                                12-SEP-1989;
08-MAR-1990;
20-APR-1990;
31-AUG-1990;
31-AUG-1990;
                                                                                                                                                        EP1132471-A2.
                                                                                                                                                                                    31-AUG-1990;
                                                                                                                                           Homo sapiens
                                                                                                                                                                     12-SEP-2001
 35
             12
                                                              AAH48858;
                                  RESULT 919
                                          4AH48858
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R, Lesslauer W, (HOFF) HOFFMANN LA ROCHE & CO AG F. Dembic 2, Gentz Brockhaus M, Schlaeger E;

Loetscher H;

WPI; 2001-559312/63

New homogeneous, insoluble proteins that bind tumor necrosis factor (TNF), useful for treating TNF-mediated disorders, e.g. inflammation.

Example 11; Page 16; 26pp; German.

This invention describes novel insoluble proteins (1), also their (in) soluble fragments and pharmaceutically acceptable salts, able to bind tumor necrosis factor (TNF) and in homogeneous form. The products of the invention have antiinflammatory, immunosuppressive, antibacterial, antiprotozoal activity. (1), and related recombinant proteins, are used set in the adiseases mediated by TNF, e.g. shock in cases of meningococcal sepsis, development of autoimmune glomerulonephritis and cerebral malaria. Also (1), or antibodies specific for them, are used for diagnostic determination of TNF in body fluids, for affinity purification of TNF and for identifying (ant) agonists of TNF. This sequence represents a PCR primer used in the amplification of the human 55 kD TNFRP described in the method of the invention

Seguence 29 BP; 5 A; 7 C; 9 G; 8 T; 0 U; 0 Other;

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Gaps
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Query Match
     Best Loca
Matches
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RESULT 920

BP. AAQ52203 ID AAQ52203 standard; RNA; 13

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Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver; resistance; chemotherapeutic agent; colchicine; doxorubicin; colon; actinomycin D; vinblastine; stall intestine; kidney; adrenal gland; adenocarchinoma; bowel; transformed phenotype; promyelocytic leukemia; human; chronic myelogenous leukemia; CML; follicular lymphoma; human; chronic myelogenous leukemia; reset cancer; colon carcinoma; neuroblastoma; lung cancer; genetic drift; mutation; hammerhead motif; hairpin; hepatitis delta virus; group I intron; RNaseP; leukaemia; ss.
                                                  Neuroblastoma specific mRNA ribozyme cleavable nucleotide (923).
                                                                                                                                                                                                                    9205-00882885.
9205-00882885.
9205-00936421.
9205-00936422.
9205-00936531.
9205-00936531.
9205-00936532.
                                                                                                                                                                                                                                                                                                   93US-00008910
                                                                                                                                                                                                     93WO-US004573
                        (revised)
(first entry)
                                                                                                                                                                                                                             14-MAY-1992
26-AUG-1992
26-AUG-1992
26-AUG-1992
26-AUG-1992
07-DEC-1992
19-JAN-1993
                                                                                                                                                 Homo sapiens
                                                                                                                                                                 WO9323057-A1
                        25-MAR-2003
26-MAY-1994
                                                                                                                                                                                                     13-MAY-1993;
                                                                                                                                                                                    25-NOV-1993.
                                                                                                                                                                                                                                                                                                   19-JAN-1993;
         AAQ52203;
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New enzymatic RNA molecules (ribozymes) - which cleave mRNA associated with tumours or mRNA expressed from gene encoding multiple drug resistance. with

(RIBO-) RIBOZYME PHARM INC

Draper KG;

Thompson JD,

WPI; 1993-386203/48.

Claim 3; Fig 10; 69pp; English.

The sequences given in AAQ51825-2266 represent areas of mRNAs which are associated with development or maintenance of chronic myelogenous consociated with development or maintenance of chronic myelogenous consociated (CML), promyelocytic leukemia, follicular lymphoma, B-cell acute lymphocytic leukemia, follicular lymphoma, B-cell acute lymphocytic leukemia, follicular arctinoma, meuroblastoma and lung cancer. The full length mRNAs containing these target sequences, encode aberant cellular proteins which are able to control cellular proliferation and are directly linked to a leukemic phenotype. These target sequences are clarectly linked to a leukemic phenotype. These target sequences are contained motif, but may also be formed in the motif of a hairpin, heapatitis delta virus, group I intron or RNaseP-like RNA. These ribozymes con a used to inhibit the development or expression of a transformed in phenotype in man and other animals by modulating expression of the corresponding gene. Cleavage of target mRNAs expressed in pre-neoplastic corresponding cesistance (mdr-1) mRNA specific ribozymes remove the mechanism of drug resistance (mdr-1) mRNA specific ribozymes remove the cancel drift and mutations within cells. (Updated on 25-MAR-2003 to correct PN field.)

Sequence 13 BP; 2 A; 8 C; 2 G; 0 T; 1 U; 0 Other;

Score 11.4; DB 1; Length 13; Pred. No. 4.2e+02; 0.5%; Query Match Best Local Similarity ö

Gaps . 0

Pred. No. 4.2e+02; 0; Mismatches 1; Indels

92.3%;

(first entry)

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Opd oligodecxynucleotide; unmethylated; antigen-presenting cell; immunogenic; cytokine release; natural killer cell; NK cell activation; cell-mediated immune response; T-cell response; humoral response; B-cell response; antibody production; immune response induction; vaccine; B-cell response; antibody production; immune response induction; vaccine; parasitic; tuberculosis; bacterial; virtal; fungal; protozoal; parasitic; tuberculosis; AIDS; autoimmune disease; lupus erythematosus; rheumatoid arthritis; multiple sclerosis; solid tumour; cancer; immune deficiency; balogical warfare agent; cytostatic; antiarthritic; antimatorobial; antiallergic; protozoacide; tuberculostatic; antiarthritic; antiasthmatic; dermatological; phosphorothioate; ss.
                                                                                                                                                                                                                                                      Immunogenic CpG oligodeoxynucleotide, SEQ ID NO:103.
                                                                                                                                                          AAC80683 standard; DNA; 13 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-APR-2000; 2000WO-US009839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .2-APR-1999; 99US-0128898P
                                              , 965 AACGGTGGAAGTC 977
                                                                             1 AACGGTGGAAGGC 13
 Best Local Similarity 92.3
Matches 12, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Klinman D, Ishii K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (KLIN/) KLINMAN D.
(ISHI/) ISHII K.
(VERT/) VERTHELYI D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200061151-A2.
                                                                                                                                                                                                                      14-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-OCT-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                         AAC80683;
                                                                                                                           RESULT 922
AAC80683/c
                                                                                                                                                             엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to polymucleotide inhibitors (I) and methods for inhibiting telomerase activity. (I) are useful in inhibiting telomerase activity. (I) are useful in inhibiting telomerase activity and in manufacturing a medicament for inhibiting telomerase activity in a cell and in treating telomerase-mediated condition or disease, such as adenocarcinoma of breast, prostate or colon, mixed cell leukaemia.

Condenocarcinoma of breast, prostate or colon, mixed cell leukaemia.

Consecution of telomerase mediated conditions (I) are also useful in treating a tumour or in manufacturing a medicament for the treatment of tumour. The polymucleotide inhibitors may also be used in tenatment of tumour. The polymucleotide inhibitors may also be used in adiagnostic assays for detecting RNA or DNA. Inhibition of telomerase and other disorders involving inappropriate activity in cells in vivo is useful in prophylactic and therapeutic methods of treating cancer and other disorders involving inappropriate diseases. Inhibition of telomerase in haematopoietic stem cells is useful for immunosuppression and for selectively down-regulating specific branches of the immune system. The present sequence represents human telomerase polymucleotide inhibitor #2, as described in the method of the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polynucleotide useful for inhibiting telomerase activity in cells, or for treating telomerase-mediated condition or disease, such as cancers, tumors, Hodgkin's disease, or inflammatory conditions.
                                                                                                                                                                                                                                                                 Human; telomerase; hTR; cytostatic; anti-inflammatory; adenocarcinoma; breast; prostate; colon; mixed cell leukaemia; Hodgkin's disease; fertility; inflammatory condition; tumour; cancer; veterinary; immunosuppression; telomerase inhibitor; ss.
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/note= "N3'-P5' phosphoramidate linkages"
 Indels
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                                                                                                                                                                                                                                     Human telomerase polynucleotide inhibitor #2.
 Mismatches
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1 .13
/*tag= a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-MAR-2001; 2001WO-US010476.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-MAR-2000; 2000US-00540119.
                              1087 GGCTTCACCCCCA 1099
                                                                                                                                       AAS15921 standard; DNA; 13
                                                                                                                                                                                                     27-FEB-2002 (first entry)
                                              1 GGCCUCACCCCCA 13
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gryaznov SM, Pruzan R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GERO-) GERON CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-656955/75
                                                                                                                                                                                                                                                                                                                                                                                            Key
modified_base
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                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-OCT-2001
                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                     AAS15921;
                                                                                                           921
                                                                                                         RESULT 9
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The invention relates to novel immunogenic CpG oligodeoxymucleotides (AAC80581-C80723). The oligonucleotide are at least 10 bases long and comprise one of the generic sequences 5.NNNT-CpG-WNNN-3' or 5'-RY-CpG-RY -3'. The central CpG motif is unmerthylated, and the oligonucleotides optionally have phosphorothioate linkages which make them more resistant to degradation. The invention also relates to an oligonucleotide delivery complex comprising an oligonucleotide of the invention and a targetting agent, and a pharmaceutical composition comprising the oligonucleotide delivery complex. The oligonucleotides are able to induce either a cellmediated response or a humoral (B-cell, antibody) response, with oligonucleotides of the sequence 5'-RY-CpG-RY-3' being able to induce a humoral response it is thought that after administration, the oligonucleotide acts on antigen-presenting cells celling to activation of natural Ailler (NK) cells. A cell-mediated or humoral response can then occur by activation of T- or B-cells. The humoral response can then occur by activation of T- or B-cells. The induction of an immune response is useful for treating, preventing or meliorating an allergic reaction (preferably asthma), or an infection, where an immunogenic CpG oligonucleotide is administered either alone or
                                                                                                                  Novel oligonucleotides useful for the prevention and treatment of allergies, cancer, and autoimmune disorders and for ameliorating symptoms resulting from exposure to a bio-warfare agent.
                                                                                                                                                                                                                                                                                                                                                              Claim 4; Page 39; 46pp; English.
WPI; 2001-006880/01.
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0.5%; Score 11.4; DB 1; Length 13;

Sequence 13 BP; 4 A; 2 C; 6 G; 1 T; 0 U; 0 Other;

Query Match

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Tue Mar

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The allergic conditions which may be treated include eczema, allergic conditions which may be treated include eczema, allergic conditions, and the infections which may be treated include eczema, allergic conditions, and the infections which may be treated include viral, bacterial, fungal and protozoal infections such as tuberculosis. AlDS, bacterial, fungal and protozoal infections such as tuberculosis. AlDS, used in the treatment of an autoimmune disorder (e.g., lupus erythematosus, rheumatoid arthritis and multiple sclerosis), a disease associated with immune system deficiency, and symptomic CpG associated with immune system deficiency, and symptomic CpG cligonucleotide, either alone or in combination with an anti-cancer agent, is useful for treating solid tumour cancer. The induction of an immune response is used in antisense therapy and to improve the efficacy of a vaccine. The oligonucleotide is preferably administered to the host. The present sequence represents an immunogenic CpG oligodeoxynucleotide of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oligonucleotide SEQ ID NO 25860 for detecting SNP TSC0006595.
                                                                                                                                                                                                                                                                                                                Match 0.5%; Score 11.4; DB 1; Length 13; Local Similarity 92.3%; Pred. No. 4.2e+02; les 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                  Sequence 13 BP; 1 A; 5 C; 2 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                              1027 GAGCTTGAAGGAA 1039
                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 923
ABC25843/c
ID ABC25843 standard; DNA; 13
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SNP; single nuclectide polymorphism; human; diagnosis; FNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic. Set of oligonucleotides, useful for diagnosis and cell typing, : designed to detect single-nucleotide polymorphisms and cytosine Berlin K; 06-APR-2001; 2001WO-IB000713. 07-APR-2000; 2000DE-01019173 ບັ Piepenbrock WPI; 2001-657177/75. Olek A,

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC000 Claim 1; SEQ ID NO 25860; 29pp + Sequence Listing; German. designed to detect methylation status.

1017 AAAAGAGGGGAG 1029

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fit, wipo.int/pub/published_pot_sequences
                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligonucleotide SEQ ID NO 79839 for detecting SNP TSC0020268.
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                                                                                                                            Score 11.4; DB 1; Length 13; Pred, No. 4.2e+02; 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; SEQ ID NO 79839; 29pp + Sequence Listing; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 13 BP; 5 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
                                                                                            Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 U; 0 Other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Berlin K;
                                                                                                                                                                                                                                                                                                                                   ABC79822 standard; DNA; 13 BP.
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                                                                                                                                0.5%;
                                                                                                                                                                                                       940 TTCATTGGTTTAA 952
                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                          Query Match
Best Local Similarity 92.3'
Matches 12; Conservative
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Matches 12; Conservative
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                                                                                                                                                  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                             Oligonucleotide SEQ ID NO 5550 for detecting SNP TSC0001842.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE9989, ABF0010-ABE9989, ABH0010-ABH99999 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this parent did not form part of the printed specification, but was obtained in electronic format from MIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC099889, ABF00010-ABF0989, ABF00010-ABF99899 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence was obtained in electronic format from WIPO at the printed specification, but the wipo.int/pub/published_pct_sequences
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99889, ABF00010-ABE99889, ABF00010-ABE99889 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic formmat from WIPO at the printed specification, but tho wipo.int/pub/published_pct_sequences
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                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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designed to detect single-nucleotide polymorphisms and cytosine
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                                                                                                                                Oligonucleotide SEQ ID NO 35614 for detecting SNP TSC0011256.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                         / Match 0.5%; Score 11.4; DB 1; Length 13; Local Similarity 92.3%; Pred. No. 4.2e+02; les 12; Conservative 0; Mismatches 1; Indels
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Sequence 13 BP; 3 A; 8 C; 0 G; 2 T; 0 U; 0 Other;
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Matches 12, Conservative
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Homo sapiens

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory,
                                                                                                                                                                               This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WFPO at five.int/pub/published_pct_sequences
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cytosine
                                           Set of oligonuclectides, useful for diagnosis and cell typing, idesigned to detect single-nuclectide polymorphisms and cytosine methylation status.
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                                                                                                                                              Claim 1; SEQ ID NO 60893; 29pp + Sequence Listing; German.
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Best Local Similarity 92.3%;
Matches 12; Conservative
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WPI; 2001-657177/75
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Oligonucleotide SEQ ID NO 163884 for detecting SNP TSC0041158

(first entry)

22-FEB-2002

ABF63887;

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ABF63887 standard; DNA; 13

ABF63887/

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CATCCCCAACACC 13

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, asrdiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABF82073 factseen the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at fitte.wipo.int/pub/published_pct_sequences
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Olek A, Piepenbrock C, (EPIG-) EPIGENOMICS AG.

WPI; 2001-657177/75

06-APR-2001; 2001WO-IB000713. 07-APR-2000; 2000DE-01019173

WO200177384-A2 Homo sapiens.

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Query Match 0.5%; Score 11.4; DB 1; Length 13; Best Local Similarity 92.3%; Pred. No. 4.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels

Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

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Piepenbrock C,

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(EPIG-) EPIGENOMICS AG

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                               SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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               Oligonucleotide SEQ ID NO 189340 for detecting SNP TSC0046583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Match 0.5%; Score 11.4; DB 1; Length 13; Local Similarity 92.3%; Pred. No. 4.2e+02; les 12; Conservative 0; Mismatches 1; Indels
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH999989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                            Claim 1; SEQ ID NO 249449; 29pp + Sequence Listing; German.
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) eligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretraeted genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC001016 as DEF09989, ABH0010-ABH99989 and ABI0010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
Claim 1; SEQ ID NO 5549; 29pp + Sequence Listing; German.
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Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 U; 0 Other;

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Gaps
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Match 0.5%; Score 11.4; DB 1; Length 13; Local Similarity 92.3%; Pred. No. 4.2e+02; les 12; Conservative 0; Mismatches 1; Indels
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       Query Match
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ABF25379 standard; DNA; 13 BP (first entry) 21-FEB-2002 ABF25379; RESULT 940 ABF25379

Oligonucleotide SEQ ID NO 125376 for detecting SNP TSC0031340.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens

WO200177384-A2

18-OCT-2001

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173.

(EPIG-) EPIGENOMICS AG

Berlin K;

Piepenbrock C,

olek A,

WPI; 2001-657177/75

Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 125376; 29pp + Sequence Listing; German.

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cycosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, contral nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                      Length 13;
                                                                                    Query Match 0.5%; Score 11.4; DB 1; Length 1. Best Local Similarity 92.3%; Pred. No. 4.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels
                                                     Sequence 13 BP; 3 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
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was obtained in electronic format from Wiftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                     ABF33003;
                                                                                                                                                                                                                                                            RESULT 941
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                              Oligonucleotide SEQ ID NO 146113 for detecting SNP TSC0036805.
                                                                                                                                                                                                           Berlin K;
               ABF46116 standard; DNA; 13 BP.
                                                                                                                                                            06-APR-2001; 2001WO-IB000713.
                                                                                                                                                                           07-APR-2000; 2000DE-01019173.
                                              (first entry)
                                                                                                                                                                                                           Piepenbrock C,
                                                                                                                                                                                            (EPIG-) EPIGENOMICS AG
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                               ABF46116;
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RESULT 942
        ABF461
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligoners for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a central nervous system, cardiovascular and metabolic disorders. The oligoners are also used for detecting cell type differentiation. ABC0010 +ABC99989, ABF00010-ABF9989, ABF00010-ABF9989, ABF00010-ABF9989, and ABI00010-ABF92073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status. Claim 1; SEQ ID NO 146113; 29pp + Sequence Listing; German. ftp.wipo.int/pub/published_pct_sequences

Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 U; 0 Other;

Match 0.5%; Score 11.4; DB 1; Length 13; Local Similarity 92.3%; Pred. No. 4.2e+02; es 12; Conservative 0; Mismatches 1; Indels 772 TTTCTAAGAGAAA 784 Query Match

1 TTTTAAGAGAAA 13

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ABF56566 standard; DNA; 13 BP.

(first entry) 21-FEB-2002 ABF56566;

Oligonucleotide SEQ ID NO 156563 for detecting SNP TSC0039474.

06-APR-2001; 2001WO-IB000713. 07-APR-2000; 2000DE-01019173.

WO200177384-A2.

18-OCT-2001.

Homo sapiens

(EPIG-) EPIGENOMICS

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; peptide nucleic acid; cytosine methylation; cardiovascular; primer;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE99989, ABF00010-ABE99989, ABF00010-ABE99989 and ABI00010-ABE82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at the printed specification, but fip.wipo.int/pub/published_pct_sequence
central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                        Olek A, Piepenbrock C,
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                                                                           WO200177384-A2
                                     Homo sapiens
                                                                                                                 18-OCT-2001.
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Best Local S
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic. Oligonucleotide SEQ ID NO 54471 for detecting SNP TSC0014932. 묤. ABC54454 standard; DNA; 13 854 AGAATGTTAAGGG 866 (first entry) 1 AGAATATTAAGGG 13 21-FEB-2002 ABC54454; RESULT 944 ABC54454

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, contral nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but ftp.wipo.int/pub/published_pct_sequences
                                                                                                          Set of oligonucleotides, useful for diagnosis and cell typing, addesigned to detect single-nucleotide polymorphisms and cytosine
                                                                                                                                                                                                 Claim 1; SEQ ID NO 54471; 29pp + Sequence Listing; German.
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                        Berlin K;
                     Piepenbrock C,
                                                                 WPI; 2001-657177/75
                                                                                                                                                          methylation status.
                     olek A,
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0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; ative 0; Mismatches 1; Indels
                                                                     941 TCATTGGTTTAAT 953
Query Match
Best Local Similarity 92.39
Watches 12, Conservative
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Oligonucleotide SEQ ID NO 79840 for detecting SNP TSC0020268. BP. ABC79823 standard; DNA; 13 (first entry) 21-FEB-2002 ABC79823; RESULT 94 ABC79823/

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001

07-APR-2000; 2000DE-01019173.

06-APR-2001; 2001WO-IB000713.

(EPIG-) EPIGENOMICS AG

Berlin

Piepenbrock C,

olek A,

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 79840; 29pp + Sequence Listing; German.

This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nuclectide polymorphisms (SNP)

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and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF0010-ABH99989 and ABI0010-ABR9989. ABF0010-ABH99989 and ABI0010-ABR92073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                             Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 U; 0 Other;
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1017 AAAAGAGGGGAG 1029

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Oligonucleotide SEQ ID NO 123787 for detecting SNP TSC0030950. BP. ABF23790 standard; DNA; 13 21-FEB-2002 (first entry) 13 ATAAGAGGGGAG 1 ABF23790; 946 RESULT

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173.

(EPIG-) EPIGENOMICS AG.

Berlin K; Olek A, Piepenbrock C,

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 123787; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligoners are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF99999, ABH00010-ABH99999 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fitp.wipo.int/pub/published_pct_sequences

Sequence 13 BP; 1 A; 1 C; 8 G; 3 T; 0 U; 0 Other;

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                        Oligonucleotide SEQ ID NO 135934 for detecting SNP TSC0033944.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; ive 0; Mismatches 1; Indels
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                                     (first entry)
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Best Local Similarity 92.35
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   ABF35937;
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                                                                                                                                                                                                                                                                                                                                SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss, central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; cive 0; Mismatches 1; Indels
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Matches 1
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Matches 12; Conserv
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ABH15265/
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Berlin K;

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC999889, ABF00010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at the printed specification, but ftp.wipo.int/pub/published_pot_sequences
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oligonucleotides, useful for diagnosis and cell typing, is to detect single-nucleotide polymorphisms and cytosine
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                                                                                                       Claim 1; SEQ ID NO 215242; 29pp + Sequence Listing; German.
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                              designed to detect methylation status.
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Pred. No. 4.2e+02;
0; Mismatches 1;
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                 ABC64518 standard; DNA; 13
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    (EPIG-) EPIGENOMICS AG.
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-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NoTB: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fitting when int/pub/published_pot_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                          Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 U; 0 Other;
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABF99989, ABH0010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fip.wipo.int/pub/published_pct_sequences
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genemic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovaecular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH0010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic formmat from WFPO at
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             This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 data for this patent did not form part of the printed specification, but ftp.wipo.int/pub/published_pct_sequences
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0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; tive 0; Mismatches 1; Indels
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ABF56567 standard; DNA; 13
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ABH07888;

ABH07888

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, azdiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wibo int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID NO 264823; 29pp + Sequence Listing; German.
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ABC37656/
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                                                                                                                                                     Oligonucleotide SEQ ID NO 207865 for detecting SNP TSC0050831.
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(EPIG-) EPIGENOMICS AG. (first WPI; 2001-657177/75 Query Match Best Local Similarity WO200177384-A2. Homo sapiens 21-FEB-2002 18-OCT-2001. 13 ABF46129; 963 RESULT 96 ABF46129 8888888888 셤 ઠ ö This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the pub/published_pot_sequences This invention describes novel oligonucleotide primers or peptide nucleic acid (PMA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic. Gaps Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status. Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status. ; 0 Oligonucleotide SEQ ID NO 168287 for detecting SNP TSC0042090 0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; ative 0; Mismatches 1; Indels Claim 1; SEQ ID NO 168287; 29pp + Sequence Listing; German. Claim 1; SEQ ID NO 37673; 29pp + Sequence Listing; German Seguence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 U; 0 Other; Berlin K; ВЪ. ABF68290'C

ID ABF68290'C

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SNP, single nucleotide polymomonic entral nervous system; gastr

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Homo sapiens.

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Homo sapiens.

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C O-APR-2001; 2001WO-IB000713.

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C O-APR-20 06-APR-2001; 2001WO-IB000713. 07-APR-2000; 2000DE-01019173 977 CCAAGCTCTACTC 989 12; Conservative 13 CCAACCTCTACTC 1 WPI; 2001-657177/75 Local Similarity

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range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers a slso used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence was obtained in electronic format from WIPO at fire printed specification, but the wipo.int/pub/published_pct_sequences
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC09989, ABC0010-ABE9989, ABH00010-ABE9989, and ABI00010-ABE82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                       Oligonucleotide SEQ ID NO 93479 for detecting SNP TSC0023358.
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0.5%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 4.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                        SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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methylation status

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99999, ABF00010-ABF99999, ABH00010-ABH99999 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                    oligonucleotides, useful for diagnosis and cell typing, ied to detect single-nucleotide polymorphisms and cytosine
                                                                                                                                                                                                                                                                                                     Claim 1; SEQ ID NO 111603; 29pp + Sequence Listing; German.
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               06-APR-2001; 2001WO-IB000713.
                                                        07-APR-2000; 2000DE-01019173
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Berlin K;

0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; cive 0; Mismatches 1; Indels 0; TIGITIGIGGAA 1004 Query Match
Best Local Similarity 92.3' 992 à d

Gaps

Oligonucleotide SEQ ID NO 40113 for detecting SNP TSC0012202. BP. ABC40096 standard; DNA; 13 (first entry) rrcrrrcrcccca 13 21-FEB-2002 ABC40096; RESULT 967 ABC40096/c THE SECRET SECRE

SND; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

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07-APR-2000; 2000DE-01019173

06-APR-2001; 2001WO-IB000713

(EPIG-) EPIGENOMICS AG

Berlin K;

Piepenbrock C,

olek A,

WPI; 2001-657177/75

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic form to the printed specification, but ftp.wipo.int/pub/published_pct_sequences
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                                          Claim 1; SEQ ID NO 40113; 29pp + Sequence Listing; German
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Oligonucleotide SEQ ID NO 116415 for detecting SNP TSC0029144. ВР. ABF16418 standard; DNA; 13 (first entry) 21-FEB-2002 ABF16418; ABF16418

RESULT 968

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

WO200177384-A2 Homo sapiens

18-OCT-2001.

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173

(EPIG-) EPIGENOMICS AG

Berlin K; Piepenbrock C, olek A,

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 116415; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE03989, ABE00010-ABE9989, ABE00010-ABE9989, ABE00010-ABE9989, ABE00010-ABE9989 and ABI00010-ABE92073 represent the oligomers described in the invention. NOTE: The sequence

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RESULT 969 ABF32399/c

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                   SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences
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0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; tive 0; Mismatches 1; Indels
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Matches

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olek A,

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cyrosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic formmat from WIPO at
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                      designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                                                                                                                                  Claim 1; SEQ ID NO 172583; 29pp + Sequence Listing; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 13 BP; 7 A; 0 C; 3 G; 3 T; 0 U; 0 Other;
                                                 Berlin K;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABH14302 standard; DNA; 13 BP.
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                                                 Piepenbrock C,
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  (EPIG-) EPIGENOMICS AG.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genemic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cancer also used for advanced and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo.int/pub/published_pct_sequences
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Pred. No. 4.2e+02;
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Local Similarity 92.3%;
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                                                                                                                                                                                                                                                                                                     (EPIG-) EPIGENOMICS AG
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                                                                       Homo sapiens.
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ABF72586;

RESULT 972

Query Match

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acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF0010-ABH99989 and ABI0010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                                                                                                                                                                                                        Seguence 13 BP; 2 A; 0 C; 8 G; 3 T; 0 U; 0 Other;
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SNP, single nucleotide polymorphism, human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic. Oligonucleotide SEQ ID NO 265671 for detecting SNP TSC0064388.

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ABH65694/c ID ABH65694 standard; DNA; 13

22-FEB-2002 (first entry)

ABH65694;

Homo sapiens

WO200177384-A2

18-OCT-2001

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173

(EPIG-) EPIGENOMICS AG.

Berlin K; Olek A, Piepenbrock C,

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 265671; 29pp + Sequence Listing; German

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, azdiovascular and metholic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI32073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at was obtained in electronic format from Wi ftp.wipo.int/pub/published_pct_sequences was obtained in

6 T; 0 U; 0 Other; . Ö ς; 5 BP; 2 A; 0 Sequence 13

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                                                                                                                                                                                  Oligonucleotide SEQ ID NO 20194 for detecting SNP TSC0004139.
Length 13;
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                    Indels
0.5%; Score 11.4; DB 1;
92.3%; Pred. No. 4.2e+02;
tive 0; Mismatches 1;
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                                           1063 AACCCAAGCTTCA 1075
                                                                                                                    ABC20177 standard; DNA; 13
                                                                                                                                                               (first entry)
                       Conservative
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                                                                                                                                                                                                                                                                                                                                                            (EPIG-) EPIGENOMICS AG.
                                                                13 AACCCAAACTTCA
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          Best Local Similarity
Matches 12; Conserv
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                                                                                                                                          ABC20177;
  Query Match
                                                                                               RESULT 975
                                                                                                            ABC20177
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and merabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF3073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at Sequence 13 BP; 3 A; 2 C; 1 G; 7 T; 0 U; 0 Other;

ô 0.5%; Score 11.4; DB 1; Length 13; 32.3%; Pred. No. 4.2e+02; ve 0; Mismatches 1; Indels Query Match Best Local Similarity 92.3%; Matches 12; Conservative

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941 TCATTGGTTTAAT 953

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RESULT 976 ABC70938 ID ABC7

ABC70938 standard; DNA; 13

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI32073 tepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   octor or ungonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
                                                                                          Oligonucleotide SEQ ID NO 70955 for detecting SNP TSC0018409.
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                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                    Piepenbrock C,
                                                                                                                                                                                                                                                                                                                                                                                                (EPIG-) EPIGENOMICS AG
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                                                      21-FEB-2002
                                                                                                                                                                                                           Homo sapiens.
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                  ABC70938;
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genemic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at

Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Berlin K;

Olek A, Piepenbrock C, (EPIG-) EPIGENOMICS AG

WPI; 2001-657177/75.

06-APR-2001; 2001WO-IB000713 07-APR-2000; 2000DE-01019173

WO200177384-A2

18-OCT-2001

German.

Claim 1; SEQ ID NO 22077; 29pp + Sequence Listing;

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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                        Oligonucleotide SEQ ID NO 111604 for detecting SNP TSC0027869.
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ABF11607 standard; DNA; 13
                                                                                                     (first entry)
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                                                                             ABF11607;
                                    RESULT 978
                                                ABF11607,
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Gaps

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Match 0.5%; Score 11.4; DB 1; Length 13; Local Similarity 92.3%; Pred. No. 4.2e+02; es 12; Conservative 0; Mismatches 1; Indels

Query Match

Matches

994 GTTTGTGGGAAAT 1006

1 Grirrigedaar 13

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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens

Oligonucleotide SEQ ID NO 22077 for detecting SNP TSC0004393.

(first entry)

20-FEB-2002

ABC22060;

ABC22060/c ID ABC22060 standard; DNA; 13 BP.

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0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; tive 0; Mismatches 1; Indels

1146 CACCTATACCCCC 1158

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Query Match Best Local Similarity 92.3 Matches 12; Conservative

Sequence 13 BP; 2 A; 0 C; 7 G; 4 T; 0 U; 0 Other;

ftp.wipo.int/pub/published_pct_sequences

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ABC64519 standard; DNA; 13
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                                                                                                                                                 (EPIG-) EPIGENOMICS AG
                                                                                                                                                            WPI; 2001-657177/75
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oligomers are also used for detecting cell type differentiation. ABC00010 -ABC9989, ABF0010-ABF9989, ABH0010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                               Query Match 0.5%; Score 11.4; DB 1; Length 13; Best Local Similarity 92.3%; Pred. No. 4.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels
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                                                                                                                                                                                             Sequence 13 BP; 5 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
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                       Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                              Claim 1; SEQ ID NO 111604; 29pp + Sequence Listing; German.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABE99989, ABF00010-ABE99989, ABH00010-ABE99989, and ABI00010-ABE82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPD at
                                               SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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       Oligonucleotide SEQ ID NO 81732 for detecting SNP TSC0020677.
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ABF12076 standard; DNA; 13 BP.
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Best Local Similarity 92.3
Matches 12; Conservative
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1258 CCCAACCCCTTC 1270
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, coinformers are also used for detecting cell type differentiation. Abc00010-ABC9989, ABF00010-ABF99899, ABH00010-ABF9989, almonio-ABF99899 and ABI00010-ABI82073 farepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                              This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genemic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
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    Claim 1; SEQ ID NO 115726; 29pp + Sequence Listing; German.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABH99989 and ABI00010-ABI82073 tapeseen the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
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Local Similarity 92.3%; Pred. No. 4.2e+02;
les 12; Conservative 0; Mismatches 1; Indels
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                                         07-APR-2000; 2000DE-01019173
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                                                                                                                                                                                                               Piepenbrock C,
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                              Oligonucleotide SEQ ID NO 194301 for detecting SNP TSC0047795.
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                                       ABF94304 standard; DNA; 13
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                                                                                                                                                                                                                                                                                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                             Query Match 0.5%; Score 11.4; DB 1; Length 13; Best Local Similarity 92.3%; Pred. No. 4.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels
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                                Sequence 13 BP; 6 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           was obtained in electronic format from WI
ftp.wipo.int/pub/published_pct_sequences
ftp.wipo.int/pub/published_pct_sequences
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Claim 1; SEQ ID NO 194301; 29pp + Sequence Listing; German.
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Best Local Similarity 92.3
Matches 12; Conservative
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nuclectide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99889, ABF00010-ABF99899, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                                                                                                                                                                           Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine
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                                                                                                                                                                                                                                                                                                                                                                 Claim 1; SEQ ID NO 207863; 29pp + Sequence Listing; German.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cardiovascular and merabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invantion. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                                                                                                                                         Claim 1; SEQ ID NO 249450; 29pp + Sequence Listing; German.
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92.3%; Pred. No. 4.2.
   Berlin K;
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Piepenbrock C,
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methylation status.
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   olek A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                           SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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designed to detect single-nucleotide polymorphisms and cytosine
methylation status.
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0.5%; Score 11.4; DB 1; Length 13;

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Matches 12; Conservative 0; Mismatches 1; Indels
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805 AACTGTAAGAAAA 817
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Best Local Similarity 92.3
Matches 12; Conservative
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                                                                                                                                                                                                                                                                                Berlin K;
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                                                                                                                                                                                                            (EPIG-) EPIGENOMICS AG
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                                                                                                                                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                          Oligonucleotide SEQ ID NO 37674 for detecting SNP TSC0011716.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, artdovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABH82073
                                                                                          This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretracted genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00101-ABC99989, ABF00010-ABE99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but they wipo.int/pub/published_pct_sequences
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detect single-nucleotide polymorphisms and cytosine
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represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABF9989, ABH00010-ABF9989, and ABI00010-ABF82073 data for this patent did not form part of the printed specification, but the wipo.int/pub/published_pct_sequence
                                                                                                                                                     SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                         Oligonucleotide SEQ ID NO 131354 for detecting SNP TSC0032783.
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                             ABF31357 standard; DNA; 13 BP.
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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designed to detect single-nucleotide polymorphisms and cytosine
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting call type differentiation. ABC00010-ABC99989, ABF00010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic formmat from WIPO at
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 trepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                     SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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    ABC22064 standard; DNA; 13
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AC ABC2
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                                                                                                                                                                                                                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                            Length 13;
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BP; 3 A; 1 C; 7 G; 2 T; 0 U; 0 Other;
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                                          Query Match 0.5%; Score 11.4; DB 1; Best Local Similarity 92.3%; Pred. No. 4.2e+02; Matches 12; Conservative 0; Mismatches 1;
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ABC22064/c
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                                                             0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; cive 0; Mismatches 1; Indels
Sequence 13 BP; 2 A; 1 C; 7 G; 3 T; 0 U; 0 Other;
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cycosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and range of diseases including immune system, gastrointestinal, respiratory, oligomers are also used for addiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC001010-ABC99999, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 data for this patent did not form part of the printed specification, but ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                           Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                          06-APR-2001; 2001WO-IB000713.
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              WO200177384-A2
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABH32073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo.int/pub/published_pct_sequences
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                                 Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                           Claim 1; SEQ ID NO 35613; 29pp + Sequence Listing; German.
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Conservative
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ABF15728 standard; DNA; 13
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0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; ative 0; Mismatches 1; Indels

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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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designed to detect single-nucleotide polymorphisms and cytosine
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                                             1164 CTGTCCCAACTTT 1176
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                          Length 13;
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                                                                                                                                                                                                                                                                Sequence 13 BP; 0 A; 0 C; 8 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                               Query Match
0.5%; Score 11.4; DB 1;
Best Local Similarity 92.3%; Pred. No. 4.2e+02;
Matches 12; Conservative 0; Mismatches 1;
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ABF31848/c
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Berlin K;

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, contral nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABE99989, ABF00010-ABE99989, ABF00010-ABE99989, ABF00010-ABE99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fire printed specification, but fip.wipo.int/pub/published_pct_sequences
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Claim 1; SEQ ID NO 146114; 29pp + Sequence Listing; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 U; 0 Other;
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Best Local Similarity
Local 12; Conserva
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AC ABF6
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OT 22-F
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Gaps

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1; Indels

/ Match 0.5%; Score 11.4; DB 1; Local Similarity 92.3%; Pred. No. 4.2e+02; nes 12; Conservative 0; Mismatches 1;

Query Match

Best Loca Matches

Length 13;

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06-APR-2001; 2001WO-IB000713
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                                                                                                                                Olek A, Piepenbrock C,
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                                                                                      (EPIG-) EPIGENOMICS
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABR0010-ABE99899, ABH0010-ABE99899 and ABI0010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                               SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine
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                     Oligonucleotide SEQ ID NO 163883 for detecting SNP TSC0041158.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; SEQ ID NO 163883; 29pp + Sequence Listing; German.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                           (EPIG-) EPIGENOMICS AG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           methylation status
                                                                                                                                                                                                WO200177384-A2
                                                                                                                                                          Homo sapiens
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olek A,

WO200177384-A2 Homo sapiens.

RESULT 1011

Matches

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosite methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABF99989, ABH00010-ABF99989 and ABI00010-ABF8073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                     claim 1; SEQ ID NO 69002; 29pp + Sequence Listing; German.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cardinal proposis of cancer and a contral nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABM00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form par to f the printed specification, but ftp.wipo.int/pub/published_pct_sequences
                           Claim 1; SEQ ID NO 70956; 29pp + Sequence Listing; German.
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Sequence 13 BP; 6 A; 4 C; 0 G; 3 T; 0 U; 0 Other;

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Length 13;
                                                  1; Indels
Query Match 0.5%; Score 11.4; DB 1;
Best Local Similarity 92.3%; Pred. No. 4.2e+02;
Matches 12; Conservative 0; Mismatches 1;
                                                                                                994 GTTTGTGGGAAAT 1006
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13 GTTTTGGGAAAT 1 셤

ABF16419 standard; DNA; 13 BP. ABF16419; RESULT 1013 ABF16419/c

(first entry) 21-FEB-2002

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic. Oligonucleotide SEQ ID NO 116416 for detecting SNP TSC0029144.

Homo sapiens

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173.

(EPIG-) EPIGENOMICS AG.

Berlin K; Olek A, Piepenbrock C,

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 116416; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for disponsis and/or prognosis of cancer and range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but

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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; 88; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                           Oligonucleotide SEQ ID NO 131846 for detecting SNP TSC0032915.
                                               Length 13;
                                                                     1; Indels
                             Sequence 13 BP; 6 A; 4 C; 0 G; 3 T; 0 U; 0 Other;
                                               Query Match 0.5%; Score 11.4; DB 1; Best Local Similarity 92.3%; Pred. No. 4.2e+02; Matches 12; Conservative 0; Mismatches 1;
was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                BP.
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                                                                                         992 TTGTTGTGGGAA 1004
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                                                                                                            13 TTATTTGTGGGAA 1
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99889, ABF00010-ABF99889, ABF00010-ABF99889 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at Claim 1; SEQ ID NO 131846; 29pp + Sequence Listing; German.

Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status.

WPI; 2001-657177/75.

ö 0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; ive 0; Mismatches 1; Indels Seguence 13 BP; 2 A; 5 C; 0 G; 6 T; 0 U; 0 Other; 12; Conservative Local Similarity Query Match Best Loca Matches

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Gaps

1164 CTGTCCCAACTTT 1176 CTTTCCCAACTT 13

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ABF68286;

1015

RESULT

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99999, ABF00010-ABF99999, ABH00010-ABH99999 and ABI00010-ABI92073 the sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fitte specification, but fitp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
central nervous system; gastrointestinal; respiratory; immune; metabolic
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Best Local Similarity
Matches 12; Conserv
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                                                                                                                                                                                                                                                       SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                             Oligonucleotide SEQ ID NO 168283 for detecting SNP TSC0042090.
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                                                                       ABF68286 standard; DNA; 13 BP
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Best Local Similarity
Matches 12; Conserv
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                                                                                                                                 ligonucleotides, useful for diagnosis and cell typing, is to detect single-nucleotide polymorphisms and cytosine
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Berlin K;
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   Piepenbrock
                                                              WPI; 2001-657177/75.
                                                                                                                                                                      designed to detect methylation status.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
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ABC22061 standard; DNA; 13 BP.
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) cligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically prereated genomic DNA. The coligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The coligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABH0010-ABH99999 and ABI00010-ABI82073 arepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic form at from WIPO at
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and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligoners are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF0010-ABF9989, ABH0010-ABH9989 and ABI0010-ABI82073 represent the oligomers described in the invention. NoTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                             SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                       Oligonucleotide SEQ ID NO 64289 for detecting SNP TSC0016960.
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  Length 13;
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                       1; Indels
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Score 11.4; DB 1;
Pred. No. 4.2e+02;
0; Mismatches 1;
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ID ABF15306 standard; DNA; 13 BP.
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Query Match 0.5
Best Local Similarity 92.3
Matches 12; Conservative
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                                                                SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Oligonucleotide SEQ ID NO 115303 for detecting SNP TSC0028911.
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Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 168288; 29pp + Sequence Listing; German.

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, acadiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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ABH65695 standard; DNA; 13

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-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at the printed specification, but ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                   SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic formmat from WIPO at the printed specification, but firewipo.int/pub/published_pct_sequences
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                                                                                                                                                                                  Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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07-APR-2000; 2000DE-01019173
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                                                                                          Piepenbrock C,
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                  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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designed to detect single-nucleotide polymorphisms and cytosine
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RESULT 1028 ABC20176,

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            This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretraated genomic DNN. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABH99989 and ABI00010-ABH82073 data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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0.5%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 4.2e+02;

Matches 12; Conservative 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Query Match 0.5%; Score 11.4; DB 1; Length 13; Best Local Similarity 92.3%; Pred. No. 4.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels
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Best Local Similarity
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RESULT 1032

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nuclectide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABH99899 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic former from MIPO at
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Matches 12; Conservative
                                                                                                                                                                                                                                                                               Olek A, Piepenbrock C,
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Homo sapiens.
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                                                                                        18-OCT-2001.
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                                                                                                                                                                                                         SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                                                            Oligonucleotide SEQ ID NO 123788 for detecting SNP TSC0030950.
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.larity 92.3%; Pred. No. 4.2e+02;
Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; SEQ ID NO 123788; 29pp + Sequence Listing; German.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        was obtained in electronic format from Wl
ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABF36153 standard; DNA; 13 BP.
                 ABF23791 standard; DNA; 13 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                              06-APR-2001; 2001WO-IB000713.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (EPIG-) EPIGENOMICS AG
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Matches 12; Conserv
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                                                                                                                                                                                                                                                                                                      Homo sapiens.
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                                                                 ABF23791;
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ABF 23791

ABF 73791

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99999, ABF00010-ABF99999, ABH00010-ABH99999 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at the printed specification, but fire.wipo.int/pub/published_pct_sequences
                                                                    Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
                                                                                                                                                                                 Claim 1; SEQ ID NO 143692; 29pp + Sequence Listing; German
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                      WPI; 2001-657177/75
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Score 11.4; DB 1; Length 13; Pred. No. 4.2e+02; 0; Mismatches 1; Indels 1251 CCCCATCCCCAAC 1263 Query Match
Best Local Similarity 92.38
Matches 12; Conservative 1 CACCATCCCCAAC 13 à 셤

0.5%;

ABF73359 standard; DNA; 13 RESULT 1035 ABF73359/c

BP

(first entry) 22-FEB-2002 ABF73359;

Oligonucleotide SEQ ID NO 173356 for detecting SNP TSC0043189.

SND; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

sapiens Homo WO200177384-A2.

18-OCT-2001

06-APR-2001; 2001WO-IB000713

07-APR-2000; 2000DE-01019173

(EPIG-) EPIGENOMICS AG

Berlin K; Piepenbrock C, Olek A,

WPI; 2001-657177/75

Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 173356; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PMA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a

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range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC09989, ABF00010-ABE9989, ABF00010-ABE9989, ABF00010-ABE9989, ABE700010-ABE9989, ABE700010-ABE9989, and ABI00010-ABE82073 represent the oligomers described in the invention. NOTE: The sequence was obtained in electronic format from WIPO at the printed specification, but typ.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                      Sequence 13 BP; 7 A; 4 C; 0 G; 2 T; 0 U; 0 Other;
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Best Local Similarity 92.33
Matches 12; Conservative
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          8888888888888
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SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic. Oligonucleotide SEQ ID NO 183674 for detecting SNP TSC0045363. (first entry) WO200177384-A2 Homo sapiens. 22-FEB-2002

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ABF83677 standard; DNA; 13

RESULT 1036 ABF83677

ABF83677;

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Gaps

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18-OCT-2001

06-APR-2001; 2001WO-IB000713

07-APR-2000; 2000DE-01019173

(EPIG-) EPIGENOMICS AG

Olek A, Piepenbrock C,

Berlin K;

WPI; 2001-657177/75

Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 183674; 29pp + Sequence Listing; German.

This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99999, ABF00010-ABF9989, ABH00010-ABH99999 and ABI00010-ABI82073 tepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo.int/pub/published_pct_sequences

Sequence 13 BP; 5 A; 6 C; 0 G; 2 T; 0 U; 0 Other;

0.5%; Score 11.4; DB 1; Length 13; 92.3%; Pred. No. 4.2e+02; Query Match Best Local Similarity

à g

(first entry)

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99999, ABF00010-ABF99999, ABF00010-ABF99999, ABF00010-ABF99999, ABF00010-ABF99999 and ABI00010-ABF8073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; pebtide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                                                                                                                                                                                                                                                                                         Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
                                Oligonucleotide SEQ ID NO 264824 for detecting SNP TSC0064191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; SEQ ID NO 264824; 29pp + Sequence Listing; German.
                                                                                                                                                                                                                                                   06-APR-2001; 2001WO-IB000713
                                                                                                                                                                                                                                                                                    07-APR-2000; 2000DE-01019173
                                                                                                                                                                                                                                                                                                                                                        Piepenbrock C,
                                                                                                                                                                                                                                                                                                                        (EPIG-) EPIGENOMICS AG.
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                                                                                                                                                                             WO200177384-A2.
                                                                                                                                            Homo sapiens.
22-FEB-2002
                                                                                                                                                                                                             18-OCT-2001
                                                                                                                                                                                                                                                                                                                                                            olek A,
This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, asrdowascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABH00010-ABF9989, ABH00010-ABF9989, ABH00010-ABF9989, and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form mat of the printed specification, but was obtained in electronic format from WIPO at.
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     Gaps
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                                                                                                                                                                                                                                                                    Oligonucleotide SEQ ID NO 236169 for detecting SNP TSC0057642.
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   Indels
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ABH36192 standard; DNA; 13 BP.
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                                      1262 ACCCCCTTCAGAA 1274
                                                                                                                                                                                                                                  (first entry)
                                                                1 ACCCCTTCAAA 13
   12; Conservative
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                                                                                                                           RESULT 1037
   Matches
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Berlin K;

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                                                   Gaps
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                      Query Match 0.5%; Score 11.4; DB 1; Length 13; Best Local Similarity 92.3%; Pred. No. 4.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels
Sequence 13 BP; 3 A; 8 C; 0 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                    Pseudonucleotide containing control oligomer.
                                                                                                                                                                        BP.
                                                                              1254 CATCCCCAACCCC 1266
                                                                                                                                                           AAQ42800/c
ID AAQ42800 standard; DNA; 14
                                                                                                                                                                                                                            (first entry)
                                                                                            1 CATCTCCAACCCC 13
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                                                                                                                                                                                                                                                                                                                      Synthetic
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. Match 0.5%; Score 11.4; DB 1; Length 13; Local Similarity 92.3%; Pred. No. 4.2e+02; les 12; Conservative 0; Mismatches 1; Indels

Query Match

1258 CCCAACCCCTTC 1270

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13 cccaacccccrac 1

Sequence 13 BP; 1 A; 0 C; 9 G; 3 T; 0 U; 0 Other;

US5214136-A 25-MAY-1993

BP.

ABH64847 standard; DNA; 13

RESULT 1038

ABH64847

ABH64847;

Tue Mar

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The sequences given in AAQ61990-2001 are oligonucleotides which contain G4 or G3 stretches and which may be used for inhibiting replication of herpes simplex virus (HSV), activity of HIV, human cytomegalovirus or influenza virus, or for treating inflammatory and neurological disorders caused by phospholipase A2 activity in cases of hyper-proliferation, malignancy, cardiovascular disease and snake bite. Oligonucleotides such as these, may be used for inhibiting division of malignant cells by modualting telomere length, which may also retard aging. (Updated on 25-MAR-2003 to correct PN field.)
              w modified oligo-nucleotide contg guanine quartet - inhibits activity
viruses, e.g. HIV, and phospholipase A2 and modulates telomere length
chromosomes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human cytomegalovirus; influenza virus; inflammation;
neuvological disorders; phospholipase A2 activity; hyperproliferation;
malignancy; cardiovascular disease; snake bite; malignancy;
telomere length; retard; aging; ss.
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/*tag= a
/note= "Phosphorothionate intersugar linkages"

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Inhibition; replication; herpes simplex virus; HSV; HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HIV replication inhibiting oligomer, ISIS no 5667.
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                                                                                                                                                                                                                                                                                                                           Sequence 14 BP; 0 A; 0 C; 8 G; 6 T; 0 U; 0 Other;
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att JR, Imbach JL;
                                                                                            Disclosure; Page 107; 144pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure, Page 23, 144pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAQ61915 standard; DNA; 14 BP.
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Ecker DJ, Vickers TA, Wy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13 ACCCCAACCCCAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (revised)
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misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-MAR-2003
04-NOV-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
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                                                                                                                                                                                                                                                                                      The sequences given in AAQ42793-802 are oligomers which contain pseudonucleotides which contain anthraquinone. These oligomers were tested for stability in vitro and in vivo, and specificity of hybridisation to complementary DNA and RNA. Hybridisation was increased with respect to DNA and RNA complement in almost all cases. The oligomers which contain two anthraquinone modifications generally show cumulatively enhanced stability as compared to those with only one such residue. These oligomers are useful for therapeutic, esp. antisense therapy, diagnostic
                                                                                                                                                                                          Modified oligo:nucleotide(s) conjugates to anthraquinone - useful as anti-sense agents for treating and diagnosing diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Inhibition; replication; herpes simplex virus; HSV; HIV; retard; human cytcomegalovirus; influenza virus; inflammation; telomere length; neurological disorders; phospholipase A2 activity; hyperproliferation; malignancy; cardiovascular disease; snake bite; malignancy; aging; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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/note= "Phosphorothionate intersugar linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.5%; Score 11.4; DB 1; Length 14; 92.3%; Pred. No. 5.2e+02; tive 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Seguence 14 BP; 0 A; 7 C; 0 G; 7 T; 0 U; 0 Other;
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att JR, Imbach JL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Guanine quartet containing oligomer, #7.
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Vickers TA, Wyatt JR,
                                                                                                                                                                                                                                                    Disclosure, Table 1; 6pp; English.
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                                     90US-00482941.
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90US-00482941
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(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                     and research applications
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12; Conservative
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                                                                           (GILE-) GILEAD SCI INC
                                                                                                                Matteucci M;
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                                                                                                                                                      WPI; 1993-181844/22
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                                     20-FEB-1990;
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04-NOV-1994
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AAQ61996/c
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hyperproliferation, malignancy, cardiovascular disease and snake bite. They may also be used for inhibiting division of malignant cells by modualting telomere length, which may also retard aging. (Updated on 25-MAR-2003 to correct PN field.)

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The sequences given in AAQ61913-16 are oligonuclectides which contain a def stretch and which may be used for inhibiting replication of human immunodeficiency virus (HIV) Oligonucleotides such as these may also be used for inhibiting activity of HSV, human cyromegalovirus or influenza virus, or for treating inflammatory and neurological disorders caused by phospholipase A2 activity in cases of hyper-proliferation, malignancy, cardiovascular disease and snake bite. They may also be used for inhibiting division of malignant cells by modualting telomere length, which may also retard aging. (Updated on 25-WAR-2003 to correct FN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The sequences given in AAQ61825-50 and AAQ61886-906 are oligonucleotides which contain a G4 or two G3 stretches and which may be used for inhibiting replication of herpes simplex virus (HSV). Oligonucleotides such as these may also be used for inhibiting activity of HIV, human cytomegalovirus or influenza virus, or for treating inflammatory and neurological disorders caused by phospholipase A2 activity in cases of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New modified oligo-nucleotide contg guanine guartet - inhibits activity of viruses, e.g. HIV, and phospholipase A2 and modulates telomere length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Inhibition, replication, herpes simplex virus, HSV, HIV, human cytomegalovirus, influenza virus, influenzamation, neurological disorders, phospholipase A2 activity, hyperproliferation, malignancy, cardiovascular disease, snake bite; malignancy;
                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hanecak RC, Anderson KP, Bennett CF, Chiang M, Brown-Driver VL;
Ecker DJ, Vickers TA, Wyatt JR, Imbach JL;
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/note= "Phosphorothionate intersugar linkages"
                                                                                                                                                                                                                                   Query Match 0.5%; Score 11.4; DB 1; Length 14; Best Local Similarity 92.3%; Pred. No. 5.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HSV replication inhibiting oligomer, ISIS no 5675.
                                                                                                                                                                                                    Sequence 14 BP; 0 A; 0 C; 8 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 19; 144pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                           BP.
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                                                                                                                                                                                                                                                                                                              1250 ACCCCATCCCCAA 1262
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(first entry)
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/*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1994-135613/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of viruses, e.g of chromosomes.
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misc_feature
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04-NOV-1994
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AAQ61899/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Transforming growth factor beta; TGF-beta; antisense; treatment; tumour; angiogenesis; breast tumour; neurofibroma; glioma; glioblastoma; carcinogenesis; carcinoma; oesophagus; oesophageal; gastric; gut; immunosuppression; oligonucleotide; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New transforming growth factor beta anti:sense oligo:nucleotide(s) treating immunosuppression, tumours, etc.
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                                                                                                         0.5%; Score 11.4; DB 1; Length 14; 92.3%; Pred. No. 5.2e+02; tive 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                              TGF-beta gene phosphorothioate antisense oligonucleotide.
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Bogdahn U;
                                                                             Sequence 14 BP; 0 A; 0 C; 8 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                             BP.
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93EP-00107849.
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Best Local Similarity 92.39
Matches 12, Conservative
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Best Local Similarity
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13-MAY-1993;
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27-JUN-1995
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2003 to correct PN field.)
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13-MAR-1997
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AAQ67549'/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New peptide nucleic acid (PNA) oligomers are provided which (a) consist of naturally occurring nucleobases covalently bound to a polyamide backbone and (b) hybridise to the translation initiation ANG region, 5' untranslated region (3' UTR), splice junctions or coding sequence of a human immunodeficiency virus gene chosen from env. gag, pol, rev and tat. The PNAs can be used to target chosen from env. gag, pol, rev and tat. The PNAs can be used to target radiation moieties. They have utility as gene-targetted drugs for regulation moieties. They have utility as gene-targetted drugs for regulation moieties. They have also useful in diagnostic applications and as research tools. PNA oligomers have high affinity for complementary single stranded DNA. They are also able to form triple helices in which a first PNA strand binds with RNA or seDNA and a second PNA strand binds with the resulting double helix or with the first PNA strand. The PNAs possess no significant charge and are water soluble, which facilitates cellular uptake. Further, since they contain amides of non-biological amino acide, they are biostable and resistant to enzymatic degradation by proteases. The present sequence is a specifically claimed PNA sequence (represented by the sequence of nucleobases) targetting HIV genes. (Updated on 25-MAR-
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                                                                                                                                                                                                                                                                                                                              /*tag= a composed of N acetyl N-(2-aminoethyl)glycine peptide residues, the nucleobase being attached covalently to the acetyl group and the peptide linkage being formed by condensation of the glycine carboxy group of one residue with the amino group of the 2-aminoethyl moiety in the next residue."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligomer hybridisable to HIV sequence and contg. peptide nucleic acid sub:unit - binds in complementary manner to DNA and RNA, and useful for modulating HIV viral activity, e.g. in treating AIDS.
 Gaps
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  Indels
                                                                                                                                                                                                                      Peptide nucleic acid oligomer targetting HIV gene
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 Mismatches
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                                                                                                                        AAQ97984 standard; DNA; 14 BP
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                          1143 CTCCACCTATACC 1155
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(first entry)
                                         CTCCACATATACC 1
 Matches 12; Conservative
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misc_feature
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19-0CT-1995
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                                                                                                                                                                                                                                                                                          Synthetic.
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                                                                                          RESULT 1044
AAQ97984/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   steroid; conjugate; oligonucleotide; diagnostic; hybridisation probe; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligo-nucleotide conjugates with poly:cyclic mols., esp. steroid(s) useful as nucleic acid hybridisation probes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
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                                                      Length 14;
                                                      Query Match 0.5%; Score 11.4; DB 1; Length 1
Best Local Similarity 92.3%; Pred. No. 5.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels
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Sequence 14 BP; 0 A; 0 C; 8 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligonuclectide conjugated to steroid.
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                                                                                                                                                                                                                                                                                                                                                                                             AAQ67549 standard; DNA; 14 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     92US-00902538
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 1046
AAQ67550
ID AAQ67550 standard; DNA; 14
                                                                                                                                                                              1250 ACCCCATCCCCAA 1262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (revised)
(first entry)
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                                                                                                                                                                                                                               13 ACCCCAACCCCAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (revised)
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steroid, conjugate, oligonucleotide, diagnostic, hybridisation probe, ss.

Oligonucleotide complementary to test sequence

(first entry)

13-MAR-1997

The present invention describes enzymatic nucleic acid molecules with RNA cleaving activity, which specifically cleave RNA encoded by an aryl hydrocarbon nuclear transporter (ARNY) gene, an integrin subunit beta 3 pene, an integrin alpha 6 subunit gene, or a Tie-2 gene AAA1755 to AAA17167 and AAA17560 and AAA1762 represent ribozyme sequences for ARNT, and AAA19154 represent trbozyme sequences; AAA16785 to AAA184154 represent ribozyme sequences; AAA191763 to AAA19154 represent ribozyme sequences; AAA1968 to AAA19169 to AAA19155 to AAA19155 to AAA19159 represent ribozyme sequences; AAA19154 represent ribozyme sequences; AAA19155 to AAA21968 represent their corresponding target sequences; AAA1922 represent their corresponding target sequences; AAA19251 to AAA2156 and AAA21501 to AAA21595 represent ribozyme sequences; AAA2185 to AAA2156 and AAA21501 to AAA21595 represent ribozyme sequences; and AAA2186 and AAA22476 to AAA21560 and AAA21500 and AAA2185 to AAA21500 and AAA21505 to AAA21500 and AAA2185 to A integrin subunit alpha-6, or integrin subunit beta-3

Oligo-nucleotide conjugates with poly:cyclic mols., esp. steroid(s) useful as nucleic acid hybridisation probes.

90US-00461884. 92US-00902538.

08-JAN-1990; 22-JUN-1992;

US5486603-A.

Synthetic.

33-JAN-1996

(GILE-) GILEAD SCI INC

WPI; 1996-104845/11.

Buhr CA;

Disclosure; Col 19; 34pp; English.

Sequence 14 BP; 3 A; 7 C; 1 G; 0 T; 3 U; 0 Other;

Gaps ö Query Match 0.5%; Score 11.4; DB 1; Length 14; Best Local Similarity 92.3%; Pred. No. 5.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels

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1276 TGGGAGGACAGCG 1288

(first entry) 05-JUN-2000

VEGF derived short oligonucleotide SEQ ID NO:78.

Human; vascular endothelial growth factor; VEGF; phosphorothioate; antisense oligonucleotide; inhibition; cytostatic; angiogenic; gene therapy; abnormal vascular permeability; cell proliferation; cell permeation; anglogenesis; neovascularisation; tumour cell growth; metascasis; ss.

Homo sapiens

EP979869-A1

16-FEB-2000

Novel ribozymes for modulating the synthesis, expression and/or stability of an mRNA encoding an anglogenic factors. Coeshott C, Mcswiggen JA; Claim 56; Page 138; 305pp; English. Jarvis T, 99WO-US006507 98US-0079678P (RIBO-) RIBOZYME PHARM INC. Roberts E, WPI; 1999-591315/50. 27-MAR-1998; 24-MAR-1999; PA, Pavco

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Gaps

. 0

14 TGGGAGGACAGTG 2 d

AAA06769

769/c AAA06769 standard; DNA; 14 BP. AAA06769; BX&X8X&&&&&X6X6X8

schultz451-1.rng

The invention relates to a conjugate of an oligonucleotide and a rigid polycyclic molecule, preferably an amino-substituted steroid. The conjugate can be used for diagnostic purposes by detecting a nucleic acid sequence. It forms a more stable complex with complementary DNA sequences than the unconjugated oligonucleotide alone. The present sequence is one tased in the examples to test the hybridisation efficiency of a complementary oligonucleotide sequence (AAQ67549) conjugated to an aminosteroid. (Updated on 25-WAR-2003 to correct PF field.) Query Match 0.5%; Score 11.4; DB 1; Length 14; Best Local Similarity 92.3%; Pred. No. 5.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels Sequence 14 BP; 8 A; 0 C; 6 G; 0 T; 0 U; 0 Other; 1017 AAAAGAGGGGAG 1029

1 AAAAGAGAGGAG 13 ò

RESULT 1047 AAA19201/c

1201/c AAA19201 standard; RNA; 14 BP.

AAA19201;

19-JUN-2000 (first entry)

Human TIE-2 target site SEQ ID NO:2427.

Human, aryl hydrocarbon nuclear transport, ARNT, TIB-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; angiogenic factor; cytostatic; antidabetic; ophthalmologic; antiniflammatory, antiarthritic; antipsoriatic; ARMD; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macuiar degeneration; inflammation; necvascular glaucoma; myopic degeneration; psoriasis; verucar vulgaris; angiofibroma; tuberous sclerosis; pot-wine stain; Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.

Homo sapiens

07-0CT-1999

98EP-00114853. 98EP-00114853.

```
Novel oligonucleotides corresponding to a part of a vascular endothelial growth factor, useful for treating e.g. tumor cell growth and/or
                                (HMRI ) HOECHST MARION ROUSSEL DEUT GMBH.
                                              Ulhmann E, Peyman A,
                                                            WPI; 2000-258586/23.
       07-AUG-1998;
                                                                                       metastasis
X#X#X#X#X#X####X#X#X#X#X
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The present invention describes oligonucleotides (I) of 10-15 residues corresponding to a part of a vascular endothelial growth factor (VEGF) comprising 1 of 6 sequences given in AAA06692 to AAA06697. AAA06699 to AAA0673 represent VEGF antisense oligonucleotides used in the exemplification of the present invention. The antisense oligonucleotides can contain phosphorothioate linkages. Oligonucleotides from the present invention have cytostatic and anaglogenic activities, and can be used in gene therapy. The oligonucleotides are useful for inhibiting the expression of VEGF, e.g. for the treatment of diseases associated with andhormal vascular permeability, cell proliferation, cell permeation, angiogenesis, necovascularisation, tumour cell growth and/or metastasis. AAA06784 represents a human VEGF nucleotide sequence from which the Disclosure, Page 3, 73pp, English.

; Query Match 0.5%; Score 11.4; DB 1; Length 14; Best Local Similarity 92.3%; Pred. No. 5.2e+02; Matches 12; Conservative 0; Mismatches 1; Indels Sequence 14 BP; 1 A; 3 C; 8 G; 2 T; 0 U; 0 Other;

742/c AAC66742 standard; DNA; 14 BP. (first entry) 15-FEB-2001 AAC66742; RESULT 1049 AAC66742/ THE STANDARD STANDARD

Probe; cytostatic; antiviral; gene therapy; ss. Heterologous insert sequence #3. Unidentified

40200063365-A1.

26-OCT-2000.

21-APR-2000; 2000WO-US010909 99US-0130345P 21-APR-1999;

Zarling D; Selotserkovskii B, Reddy G, (PANG-) PANGENE CORP.

PI; 2000-647516/62

Composition for modulating transcription or replication of a pre-selected target sequence and for treating a plant or animal disease, comprises a recombinase and two probes, each containing a homology clamp and an

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The present invention relates to a composition comprising a recombinase and two complementary single stranded probes each containing at least one homology clamp corresponding or complementary to a preselected target nucleic acid sequence and at least one anchoring sequence. The present nucleic acquence is a heterologous insert sequence used to generate the probes that can be used in the present invention. The composition of the present invention can be used in the present transcription or replication of a present clarget sequence, treat a disease state of a plant or animal caused by expression of a disease gene, detect a double stranded nucleic acid target sequence, isolate either strand of a gene family, produce a transpenic non-human organism or plant, determine the function of a couble stranded nucleic acid target sequence and inhibit double stranded nucleic acid rotation or branch migration. In addition, the composition may be used to produce animal models for genetic defects
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 14 BP; 0 A; 0 C; 8 G; 6 T; 0 U; 0 Other;
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ADB68047 standard; DNA; 14 BP. 13 ACCCCAACCCCAA 1 RESULT 1050 ADB68047/c

G4 phosphorothicate oligonucleotide 1 used to modulate telomere length. telomere length; aging; hyperproliferative condition; cancer; ss; G4. US2003096776-A1. Unidentified. 22-MAY-2003

92US-00954185. 93WO-US009297. 95US-00403888. 99US-00299058. 29-SEP-1992; 29-SEP-1993; 12-JUN-1995; 23-APR-1999;

Brown-Driver VL; ΣÌ Bennett CF, Chiang Hanecak RC, Anderson KP, Bennet Ecker DJ, Vickers TA, Wyatt JR; (ISIS-) ISIS PHARM INC.

New chemically modified oligonucleotides, useful for modulating telomere length of a mammalian chromosome, inhibiting the division of a malignant mammalian cell, or modulating the effects of aging of a mammalian cell.

The invention relates to a novel chemically modified oligonucleotide having no more than about 27 nucleic acid base units. The oligonucleotide modulates mammalian telomere length. The chemically modified oligonucleotide of the invention may be useful for modulating the

anchoring sequence

Bitonti AJ, Woessner RD;

Disclosure; Fig 9; 103pp; English.

ö Query Match

0.5%; Score 11.4; DB 1; Length 14;
Best Local Similarity 92.3%; Pred. No. 5.2e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 1250 ACCCCATCCCCAA 1262

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ADB68047;

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Gaps

(first entry) 04-DEC-2003

02-JAN-2002; 2002US-00038335

WPI; 2003-606442/57.

Example 2; Page 6; 10pp; English.

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telomere length of a mammalian chromosome, inhibiting the division of a malignant mammalian cell or modulating the effects of aging of a mammalian cell. The oligonucleotides may also useful for treating diseases associated with abnormal telomere length such as aging and hyperproliferative conditions including cancer. The current sequence is that of the G4 phosphorothicate oligonucleotide 1 of the invention which was used to modulate relomere length.
         88888888888
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Sequence 14 BP; 0 A; 0 C; 8 G; 6 T; 0 U; 0 Other;

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Gaps
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0
Score 11.4; DB 1; Length 14;
Pred. No. 5.2e+02;
0; Mismatches 1; Indels
   92.3%;
Query Match
Best Local Similarity 92.34
Matches 12, Conservative
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ADE14064 standard; DNA; 14 BP 1051 RESULT 10 ADE14064

(first entry) 29-JAN-2004 ADE14064;

Optineurin promoter motif, repeat element or regulatory region #173

Human; optineurin; ds; ophthalmological; single nucleotide polymorphism; SNP; glaucoma; progressive ocular hypertensive disorder; glaucoma related disorder; motif; repeat element; regulatory region.

Homo sapiens

US2003190617-A1

09-OCT-2003

06-MAR-2002; 2002US-00091281

06-MAR-2002; 2002US-00091281.

SIEE/) SI E. RAYM/) RAYMOND V. (MORI/) MORISSETTE J.

S. Raymond V, Morissette J,

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WPI; 2003-864168/80.

New nucleic acid sequences of the optineurin gene are useful to detect polymorphisms particularly single nucleotide polymorphisms in the optineurin promoter to diagnose, prognose and treat glaucoma and related disorders

Claim 11; SEQ ID NO 175; 159pp; English

The invention relates to an isolated nucleic acid (NI) comprising at least 20 but not more than 1500 consecutive nucleotides of the optineurin promoter appearing as ADEI3890. Also included are the optineurin promoter operably linked to a heterologous nucleic acid, a nucleic acid capable of detecting a single nucleotide polymorphism (SNP) in the optineurin promoter, opromoter, a host cell comprising the promoter operably linked to a heterologous sequence, diagnosing or promoter operably linked to a heterologous sequence, diagnosing or promoter operably linked to a heterologous sequence, diagnosing or promoter operably linked to a heterologous sequence, diagnosing or promotering allowed to a new percent and a sample containing on the presence of an optineurin promoter sequence variation in a sample containing DNA, detecting the presence of an optineurin promoter sequence variation in a sample containing DNA, determining the presence or increased succeptibility to glaucoma or to a progressive ocular hypertensive disorder resulting in loss of visual field in a patient (or the severity or progression of glaucoma in a patient, comprising providing

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Gaps

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0.5%; Score 11.4; DB 1; Length 14; llarity 92.3%; Pred. No. 5.2e+02; Conservative 0; Mismatches 1; Indels

Query Match Best Local Similarity Matches 12; Conserv

1967 TTTTTTTTTTT 1979

13

TTTCTTTGTTTTT

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Sequence 14 BP; 0 A; 1 C; 1 G; 12 T; 0 U; 0 Other;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Oligonucleotides AAV65723-25 are used in the course of the invention. The specification describes the detection of a mutation in a gene causing human Werner's syndrome. The method comprises amplifying a DNA fragment containing a mutation at position 733, 734, 1620 or 4146 of AAV65701 or at position 42 of AAV65702 and synthesising an oligonucleotide so that the base at the above site comes to be the 3' end based on the base sequence of AAV65701-02, or an oligonucleotide in which the base adjacent to the 3' end comes to be the 5' end. The oligonucleotides are hybridised with the resultant amplified fragment. The method can be used to diagnose Werner's syndrome
amplification reaction primers that direct amplification of a selected nucleic acid region containing the variation within the optineurin promoter and amplifying the DNA) and detecting a polymorphism (comprising obtaining a sample containing human genomic DNA, providing a nucleic acid capable of detecting a SNP located within an optineurin promoter, and detecting the polymorphism). The invention is used to diagnose and prognose glaucoma and also to treat glaucoma related disorders. The present sequence is an optineurin promoter motif, repeat element or putative regulatory region.
                                                                                                                                                                                                                                               Gaps
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and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detection of mutation in gene causing human Werner's syndrome oligo:nucleotide used for detection, comprises amplifying DNA synthesising oligo:nucleotide.
                                                                                                                                                                                                            Score 11.4; DB 1; Length 14; Pred. No. 5.2e+02;
                                                                                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Oligonucleotide used in the course of the invention.
                                                                                                                                                                             Seguence 14 BP; 3 A; 4 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Werner's syndrome; diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 7; Page 9; 17pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                         AAV65725 standard; DNA; 14 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24<sup>1</sup>JAN-1997; 97JP-00011268.
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                                                                                                                                                                                                            0.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (EIJI-) EIJIN KENKYUSHO KK.
                                                                                                                                                                                                                                                                                   844 CCCCAGATTGAGA 856
                                                                                                                                                                                                         0.57
Best Local Similarity 92.37
Matches 12, Conservative
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                                                                                                                                                                                                                                                                                                                  13
                                                                                                                                                                                                                                                                                                                  1 CCCCAGATTGGGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24-JAN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-AUG-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                          AAV65725;
                                                                                                                                                                                                                                                                                                                                                                         RESULT 1052
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AAZ65471 standard; DNA; 14 BP.

RESULT 1053 AAZ65471/c

(first entry)

30-MAR-2000

AAZ65471;

ВЪ.

(first entry)

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Modified oligo:nucleotide(s) conjugates to anthraquinone - useful as anti-sense agents for treating and diagnosing diseases.
                                                                                                                                                                                                                                                  Oligomer; specificity; pseudonucleotide; anthraquinone; in vitro; in vivo; hybridisation; antisense therapy; stability; diagnosis; ss.
                                                                                                                                                                                                 Pseudonucleotide containing oligomer 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure, Table 1; 6pp; English.
                              2793/c
AAQ42793 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GILE-) GILEAD SCI INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1993-181844/22.
                                                                                                                                                                                                                                                                                                                                                                                Key
misc_difference 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-FEB-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-MAY-1993.
                                                                                                                                                   22-SEP-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US5214136-A
                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                  AAQ42793;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lin KY,
RESULT 1054
AAQ42793/c
                                                                                               This sequence is an immunosuppressant inhibitor oligonucleotide, which is used in the invention. The invention relates to a composition which used in the invention. The invention relates to a composition which contains at least one inhibitor (less than 100 kD) of a substance (e.g. transforming growth factor TGF-Deta, vascular endothelial growth factor VEGF, interleukin-10 IL-10, prostaglandin E2 FGE2, or their receptors) that adversely affects the immune response. The composition also includes at least one stimulant that positively affects the immune response. This cligonuclectide is an example of an inhibitor that is used in the treatment of neoplasms and infections, particularly hyperproliferation; composition. The composition is used in immunostimulant for the treatment of neoplasms and infections, particularly hyperproliferation; colon-rectum, stomach, intestine, gall bladder or duct, pancreas, anus, breast, ovary, cervix, endometrium, prostate or bladder) liver tumours, colon-rectum, brain tumours and sarcomass. The oligonuclectides, most of which are directed against TGFbeta or VEGF, are inhibitors of monocyte chemotactic protein-1 (MCP-1) and are useful as anti-infinatories for treating e.g. asthms, Crohn's disease, ulcerative colitis, diabetes, glomerulonephritis, acute respiratory distress syndrome and the formation of atherosclerotic plaque
                                                                                                                                                                                                                                                                                                 Immunosuppressant inhibitor; transforming growth factor beta, TGF beta, vascular endothelial growth factor; VEGF; interleukin-10; IL-10; cancer; prostealandin E2; pGE2; immune response, tumour; asthma, orohn's disease; monocyte chemotactic protein-1; MCP-1; ulcerative collitis; diabetes; glomerulonephritis; acute respiratory distress syndrome; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Composition containing immune stimulant and inhibitor of agent tadversely affects the immune response, for treating cancers and infections.
                                                                                                                                                                                                                                                  Immunosuppressant inhibitor oligonculectide TGF-beta2-15/1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Brysch W;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Schlingensiepen R,
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99WO-EP004013 98EP-00110709 98EP-00113974

.0-JUN-1999; 16-DEC-1999

10-JUN-1998; 25-JUL-1998;

atherosclerosis

409963975-A2

Schlingensiepen K, VPI; 2000-097470/08

/*tag= a /note= "Pseudonucleotide containing anthraquinone"

90US-00482941. 90US-00482941.

Matteucci M;

Claim 5; Fig 1; 30pp; English

Location/Qualifiers

The sequences given in AAQ42793-802 are oligomers which contain pseudonucleotides which contain anthraquinone. These oligomers were tested for stability in vitro and in vivo, and specificity of hybridisation to complementary DNA and RNA. Hybridisation was increased with respect to DNA and RNA complement in almost all cases. The oligomers which contain two anthraquinone modifications generally show cumulatively enhanced stability as compared to those with only one such residue. These oligomers are useful for therapeutic, esp. antisense therapy, diagnostic and research applications Gaps Oligomer; specificity; pseudonucleotide, anthraquinone, in vitro; in vivo; hybridisation; antisense therapy; stability; diagnosis; ss. .; 0 0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; tive 0; Mismatches 1; Indels Sequence 15 BP; 0 A; 7 C; 0 G; 7 T; 0 U; 1 Other; Pseudonucleotide containing oligomer 4. AAQ42796 standard; DNA; 15 BP. 1015 GAAAAAGAGGGG 1027 (first entry) Query Match 0.5 Best Local Similarity 92.3 Matches 12, Conservative 13 GAAAAAGAGAGGG 1 22-SEP-1993 AAQ42796; RESULT 1055 AAQ42796/ ò d

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Gaps

. 0

0.5%; Score 11.4; DB 1; Length 14; 92.3%; Pred. No. 5.2e+02; tive 0; Mismatches 1; Indels

Query Match
Best Local Similarity 92.5.
Best Local 2; Conservative

20 CCCAAAGGCCAGA 32 CCCAAAAGCCAGA 2

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14

Seguence 14 BP; 0 A; 3 C; 5 G; 6 T; 0 U; 0 Other;

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The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves relA mRNA at the nucleotide base position indicated in the DE line. The relA gene product is a subunit of the transcriptional regulator NF-kappaB and is implicated specifically in the induction of inflammatory responses. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes are designed to cleave the target sequences and thereby inhibit relA expression, making them potentially useful for treating rheumatoid arthritis, restenosis and asthma as well as for increasing tolerance to transplanted tissues. The potential communosuppressive properties of a ribozyme that cleaves relA mRNA means that uses are limited to local delivery, acute indications or ex vivo treatment. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stinchcomb DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW; Grimm S, Karpelsky A, Kisich K, Marulic-Adamic J, Mcswiggen JA; Modak A, Pavco P, Palcjeman L, Sullivan SM, Sweedler D, Thompson JD; Tracz D, Usman N, Wincott FE, Woolf T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.5%; Score 11.4; DB 1; Length 15; 76.9%; Pred. No. 6.5e+02; ive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 15 BP; 5 A; 2 C; 5 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 2; Page 228; 407pp; English.
                                                                                                     94US-00201109.
94US-00218934.
94US-00224483.
94US-00224483.
94US-00224531.
94US-00245736.
94US-00291433.
94US-00291632.
94US-00291633.
94US-00391633.
94US-00391633.
94US-00391633.
94US-003117496.
94US-003117496.
94US-003117496.
94US-003119497.
94US-00311949.
                                                               95WO-IB000156
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (RIBO-) RIBOZYME PHARM INC.
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Best Local Similarity
                                                               23-FEB-1995;
                     31-AUG-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The sequences given in AAQ42793-802 are oligomers which contain pseudonuclectides which contain anthraquinone. These oligomers were tested for stability in vitro and in vivo, and specificity of hybridisation to complementary DNA and RNA. Hybridisation was increased with respect to DNA and RNA. Hybridisation was increased with respect to DNA and RNA complement in almost all cases. The oligomers which contain two anthraquinone modifications generally show cumulatively enhanced stability as compared to those with only one such residue. These oligomers are useful for therapeutic, esp. antisense therapy, diagnostic and research applications
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified oligo:nucleotide(s) conjugates to anthraquinone - useful as anti-sense agents for treating and diagnosing diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; dewregeulation; interieukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TWF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene; Translocation; ofronic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atherosclerosis; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasals; myocardial ischaemia; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AlDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; Indels 0; Gaps
                                                                                    /*tag= a
/note=""Pseudonucleotide containing anthraquinone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human relA hammerhead ribozyme target sequence (nt. position 349)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ch 0.5%; Score 11.4; DB 1; Length 15; 1 Similarity 92.3%; Pred. No. 6.5e+02; 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15 BP; 0 A; 7 C; 0 G; 7 T; 0 U; 1 Other;
                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Table 1; 6pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВЪ.
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(first entry)
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                                                             misc_difference
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18-APR-1997
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Synthetic
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RESULT 1056

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AAT55043

Matches

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Gaps .. 0 preferred target sequence for an

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AAT37613;
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sisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
                                                                                                  Bnzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; RSV; bcr-ab; oncogene; translocation; chronic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; arherosclerosis; myoradial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial ischaemia; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
                                                                                     Human ICAM hammerhead ribozyme target sequence (nt. position 807)
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Pavco P, Beigleman L,
Usman N, Wincott FE,
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94US-00222795.
94US-00224488.
94US-00227958.
94US-00227958.
94US-00271280.
94US-00291433.
94US-00291632.
94US-00291632.
94US-00391439.
94US-00314496.
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94US-0031499.
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94US-0031499.
94US-0031499.
94US-0031499.
                           AAT51874 standard; RNA; 15 BP.
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                                                            (revised)
(first entry)
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                                                                                                                                                                                                              Homo sapiens
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                                                           25-MAR-2003
09-MAR-1997
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11-0CT-1994
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Modak A,
Tracz D,
                                           AAT51874;
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          1057
                   AAT51874
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A claimed enzymatic RNA mol. for the cleavage of apolipoprotein (a) (apo(a)) mRNA, specifically a hammerhead ribozyme, has binding arms complementary to the present sequence (nucleotide position 1294). The ribozyme blocks to some extent apo(a) expression, and can therefore be used to diagnose or treat conditions related to lipoprotein (a) levels, e.g. atherosclerosis, myocardial infarction, stroke, restenosis and heart disease. PCR was used to generate a substrate for 17 RNA polymerase transcription from human apo(a) cDNA clones. Labelled transcripts were synthesised in vitro to form 2 templates. The oligonucleotides and incubated. After a designated time the reactions were stopped, and RNA sept. on sequencing polyacrylamide gels. The percentage of substrate cleaved was determined by autoradiographic quantification, and the most
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enzymatic nucleic acid (i.e. a ribozyme) which cleaves ICAM-1 mRNA.
Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes cleave the ICAM-1 target sequences and thereby inhibit ICAM-1 expression, making them useful for reducing transplant rejection and alleviating symptoms in patients with rheumatoid arthritis, asthma and other inflammatory disorders. (Updated on 25-MAR-2003 to correct PI field.)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.5%; Score 11.4; DB 1; Length 15; 76.9%; Pred. No. 6.5e+02; tive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Newton RS, Ramharack R;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 15 BP; 2 A; 7 C; 4 G; 0 T; 2 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 2; Page 18; 37pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT37613 standard; mRNA; 15 BP.
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Best Local Similarity 76.9
Matches 10; Conservative
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Arthritic condition; graft tolerance; immune response; target; cleavage; hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase; stromelysin; synovial membrane; joint; arthritis; osteoarthritis; rheumatoid arthritis; autoimmune disease; allergy; inflammation;

diagnosis; ss Homo sapiens.

WO9618736-A2

Human B7-1 hammerhead ribozyme target SEQ ID NO:1157.

(first entry)

20-JUL-1999

AAX64525;

BP.

AAX64525 standard; RNA; 15

RESULT 1060 AAX64525

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Enzymatic RNA mols. which cleave apo(a) mRNA - useful in diagnosis and treatment of conditions related to Lp(a) levels, e.g. atherosclerosis, myocardial infarction, and heart diseases.
                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                   Apo(a) mRNA (nt. pos. 12976) hammerhead ribozyme target seguence.
                                                                                                                                                                                                                                                                                                                                                                                                                    Enzymatic RNA molecule; cleavage; apolipoprotein (a); apo(a); hammerhead ribozyme; target sequence; diagnosis; trearment; lipoprotein (a); atherosclerosis; myocardial infarction; stroke; restenosis; heart disease; human; ss.
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                                                                         Length 15;
                                                                                                            1; Indels
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                                    Sequence 15 BP; 2 A; 5 C; 1 G; 0 T; 7 U; 0 Other;
                                                                     Score 11.4; DB 1;
Pred. No. 6.5e+02;
6; Mismatches 1;
 accessible ribozyme target sites chosen
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Best Local Similarity 46.2%;
Matches 6; Conservative (
                                                                     Query Match
Best Local Similarity 46.2%;
Matches 6; Conservative
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CAUCCUCUUCAUU 14
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AAT37615
SXS
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95US-00426124. 95US-00432874. 95US-00434509. 95US-0009951P. 95US-0000974P.

20-APR-1995; 02-MAY-1995; 04-MAY-1995 07-JUL-1995

17-FEB-1995

95US-00541365

07-JUL-1995; 07-AUG-1995; 05-OCT-1995;

(RIBO-) RIBOZYME PHARM INC.

94US-00363253. 94US-00363254. 95US-00390850.

95WO-US015516 94US-00354920

22-NOV-1995; 2010UU-1996.

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The present invention describes a novel enzymatic nucleic acid (ENA)
having a hammerhead motif (HM) comprising: (i) at least 5 ribbse residues
(ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least
ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's
membrane of joints for the treatment or prevention of arthritis,
can inhibit collagenase and stromelysin production in the synovial
membrane of joints for the treatment or prevention of arthritis,
particularly osteoarthritis or rheumatoid arthritis. The ENA's can also
be used to treat antigen presenting cells of a donor to induce tolerance
in a recipient to an alloantigen of a donor. They can also be used for
chancing graft tolerance or for treating autoimmume disease, and for
treating allergies and other inflammatory conditions. The ENA's can also
be used in diagnosis Ribozyme therapy impacts on the expression of
stromelysin without introducing the non-specific effects upon gene
expression which accompany treatment with retinoids and dexamethasone.
The concentration of ribozyme required to affect a therapeutic treatment
is lower than that required of antisense molecules, and is highly
concentrating of ribozyme required to affect a therapeutic treatment
is lower than that required of antisense molecules, and is highly
                                                                                                                                                                                                                                                                                                                                  Enzymatic nucleic acid molecules having a hammer-head motif - used for
the treatment of arthritis, induction of graft tolerance or treatment of
auto-immune diseases.
Stinchcomb DT, Jarvis T, Draper K
Gustofson J, Usman N, Wincott F,
Thompson JD, Modak A, Burgin A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 10; Page 166; 307pp; English.
                                                                                                                                                                                                                                    WPI; 1996-300653/30.
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           Beigelman L,
Mcswiggen J,
Karpeisky A,
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K, Pavco P; Matulic-Adamic J;

Gaps

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i; Indels

935 TCCTCTTCATTGG 947

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Best Loc Matches

RESULT 1061

AAT35030

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AATS0138-T50359 represent target sequences for the rabbit cholesterol cester transfer protein (CETP) hammerhead (HH) ribozymes (see AATS0360-CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme are able to cleave mRNA from the gene encoding CETP, thereby blocking cynthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density conclusions (HDL), prolonging HDL half life, and therefore increasing the levels. The ribozymes can be used to treat conditions associated with abnorable of CETP, specifically atherosclerosis, familial chypercholesterolaemia, peripheral vascular disease, dyslipidaemia, hypoalphalipoproteinaemia, vascular complications of diabetes, transplant, acherecomy and angioplastic complications of diabetes, transplant, archerecomy and angioplastic crestenosis. By inhibiting CETP, the levels of HDL and low density complications (LDL), and the HDL:LDL ratio are favourably altered (a lipoproteins (LDL), and a corresponding increase in HDL levels. The CHT Prozymes can also be used diagnostically to study genetic drift and materions in diseased cells, and coffect CETP mRNA. As the HH ribozymes can also be used diagnostically the study genetic drift and coff target specific regions of the CETP gene, they have low non-specific
                                                                                                                                                                                                                        Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage; neutral lipid transfer; plasma lipoprotein; atherosolerosis; atherococomy; reverse cholesterol transport; high density lipoprotein; therapy; CETP; familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia; peripheral vascular disease; hyperbetalipoproteinaemia; geripheral vascular disease; hyperbetalipoproteinaemia; angioplastic restenosis; low density lipoprotein; diabetes; HDL; rabbit; LDL; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA useful for preventing or treating initial development, progression or regression of vascular diseases, esp. familial hypercholesterolaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Couture L, Stinchcomb D, Mcswiggen J, Bisgaier C,
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                                                                                                                                                                                 Rabbit CETP HH ribozyme target sequence #323.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 4; Page 40; 72pp; English
                      AAT50145 standard; RNA; 15 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (RIBO-) RIBOZYME PHARM INC. (WARN ) WARNER LAMBERT CO.
                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oryctolagus cuniculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1996-321852/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9620279-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-DEC-1995;
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                                                                                                                              07-MAR-1997
AAT50145/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Specifically designed oligodeoxyribonucleotides form triplexes in single-
or double-strand DNA at homopurine-homopyrimidine targets. These
triplexes block in vitro NRA synthesis by all DNA polymerases studied,
including Sequenases, Taq, Went, and Pol I. A similar phenomenon occurs
when DNA polymerases are supplemented with accessory replication
proteins, including SSB protein. Replication blockage is highly sequence-
specific and even one or two point substitutions within either the target
sequence or the oligonucleotide abolish the effect. Sequence-specific
blocking of DNA replication in vivo is facilitated by the methods and
compositions of the present invention. The present sequence is a triplex-
forming oligonucleotide which targets ORP-Ec of human papilloma virus
(position 436-452 in HPV57 and 438-452 in HPV2)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence specific inhibition of DNA synthesis - by triplex-forming oligo:nucleotide(s), for detection of oncogene mutation(s) and treatment of e.g. HSV, Hepatitis C and Papillomavirus infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HPV; oligodeoxyribonucleotide; homopurine-homopyrimidine target; block; in vitro; DNA synthesis; DNA polymerase; Sequenase3; Taq; Vent; Pol I; accessory replication protein; SSB protein; sequence-specific; triplex-forming oligonucleotide; exon 3; inverted repeat; IR110; human papilloma virus; ORF-EC; ss.
                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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                      1larity 76.9%; Pred. No. 6.5e+02;
Conservative 2; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Priplex-forming oligonuclectide targetting HPV ORF-Ec.
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                                                                                                                                                                                                                                                                                                               AAT35030 standard; DNA; 15
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                                                                                                                                 806 ACTGTAAGAAAG 818
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les 12; Conservative
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                      Query Match
Best Local Similarity
Matches 10; Conserv
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PCR primers AAV43307-08 were used to amplify nucleic acid ligands of ICP4, which were isolated using the SELEX (Systematic Evolution of Ligands by Exponential enrichment, procedure. ICP4 is the major transcriptional regulator of Herpes simplex virus (HSV) gene expression. The specification describes a method for the identification of nucleic acid ligands to an ICP4 protein family member (PRM), which uses the SELEX procedure. The method is used to yield a mixture of nucleic acids enriched for nucleic acid sequences with relatively higher affinity and specificity for binding ICP4 protein family member. The nucleic acid are ligands indentified are used in the treatment or prevention of diseases or medical conditions in humans, specifically those caused by herpes viruses. They may also be used in diagnostic procedures
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identification of nucleic acid ligands to ICP4 protein family member comprises preparing candidate mixture of nucleic acids, contacting candidate mixture of nucleic acids with ICP4, partitioning increased affinity nucleic acids, and amplifying.
                    ICP4, transcriptional regulator; Herpes simplex virus; HSV; nucleic acid ligand; treatment; prevention; disease; PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ErbB-2; antisense oligonucleotide; modulate; gene expression; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rabin RS;
                                                                                                                                                                                                                                                                                                                                                                            90US-00536428.
91US-00714131.
95US-00409442.
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                                                                                                                                                                                                                                                                                                              96US-00591989
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (NEXS-) NEXSTAR PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gold L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1998-466659/40.
                                                                                                                                                                                                                                                                                                                                                                            11-JUN-1990;
10-JUN-1991;
24+MAR-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Jayasena SD,
                                                                                                                                                                                                                                                                                                                 25-JAN-1996;
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                                                                                                                        Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or etablility of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VBGF). A patient (preferably human) having a condition associated with the level of the finalike tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foctal liver kinase 1 (flk-1) (e.g. tumour anglogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient.
                                                                                                                                                                                                                                                                                                                                                                            Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; VEGF, hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor; foetal liver kinase 1; ss.
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                                                                                                                                                                                                                                                                                                                 Human flt-1 and KDR hammerhead ribozyme target site #17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Stinchcomb D, Escobedo J;
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                                                                                                                    AAX75683 standard; RNA; 15 BP.
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96US-00584040.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (RIBO-) RIBOZYME PHARM INC. (CHIR ) CHIRON CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1997-259017/23.
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11-JAN-1996;
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                                                          RESULT 1063
AAX75683/c
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Gaps

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97US-00929856.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Template sequence codon 12
                                                                                                                                                                                                                                                                                                                                                                                                                                15 GACCCCAGCCCCA 3
                                                                                                                                                                                                                                                                                                 treatment of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hiatt AC, Rose FD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HIAT/) HIATT A C. (ROSE/) ROSE F D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9914370-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX34457;
                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 1067
                                                                                                                                                                                                                                                                                                                                                                   Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX34457,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                        AAV48709-886 represent antisense oligonucleotides directed against the ExbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted in Significant reddution in ExbB-2 protein expression, while oligonucleotides AAV48792-886 had little effect. The oligonucleotides exemplify the invention. The specification describes oligonucleotides that that contain 8-30 nucleotides, which contain at most B nucleotides that consecutive nucleotides able to form three H-bonds each to four consecutive rucleotides able to form three H-bonds each to four consecutive cytosines, and the ratio between residues able to form two H-bonds each to three such bonds (3R) is given by 2R/3R = 0.33-0.72. The cytosines, and the ratio between residues able to form two H-bonds each (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The cytosines, and the ratio between residues able to form two H-bonds each (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The cytosines for p53, ErB-2, junB, junD, TGP-beta 1 or beta 2 to control proliferation of primary cell cultures (e.g. bone marrow stem, liver or kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The coligonucleotides can also be used to analyse function of proteins (by altering their expression or activity) and therapeutically, e.g. in cases of cancer or (targeting TGF) for stimulating the immune system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                   Preparation of antisense oligo:nucleotide(s) which lack long runs of consecutive guanosine or inosine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapputically or to modulate grown of cells in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Transcript tag sequence increased in pancreatic and colorectal cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tag sequence; colorectal cancer; pancreatic cancer; colon cancer; diagnosis; prognosis; treatment; ss.
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0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 2 A; 4 C; 6 G; 3 T; 0 U; 0 Other;
                                     (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
                                                                                                                                                                                                    Claim 10; Fig 6b; 286pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       787/c
AAX31787 standard; DNA; 15 BP.
                                                                 Schlingensiepen K, Brysch W;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98WO-US010277
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     752 GCACCTGCCATGC 764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity 92.3
nes 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14 GAACCIGCCAIGC
                                                                                            WPI; 1998-400910/35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-MAY-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAX31787;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 1066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAX31787/
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Kinzler KW;
 Vogelstein B,
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WPI; 1999-070161/06.

97EP-00101531

31-JAN-1997;

Use of isolated gene transcripts - useful for developing products for the diagnosis, prognosis and treatment of cancers, particularly colon and pancreatic cancer.

Disclosure; Page 79; 120pp; English.

differentially expresent tag sequences of transcripts that are differentially expressed in colorectal cancer, in pancreatic cancer, or in both. The tag sequences can be used to identify genes by matching the tag to a gen data base member, or by using the tag sequences as probes to isolate unidentified genes from cDNA libraries. The tag sequences can also be used in a method for diagnosing colon or pancreatic cancer in a sample suspected of being neoplastic. The method comprises comparing the level of at least one transcript in a first sample of a tissue to a second sample, where the first sample is a colonic tissue suspected of being neoplastic cand the second sample is a normal human colonic tissue. The transcript is identified by a tag a normal human colonic tissue methods of the invention can be used in the diagnosis, prognosis and

Sequence 15 BP; 1 A; 3 C; 8 G; 3 T; 0 U; 0 Other;

Gaps ö 0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; iive 0; Mismatches 1; Indels Local Similarity 92.3 nes 12; Conservative

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1249 GACCCCATCCCCA 1261

AAX34457 standard; DNA; 15 BP.

25-JUN-1999 (first entry)

Rolling template; nucleic acid synthesis; polynucleotide polymerase; gene production; primer; ss.

98WO-US019157.

WPI; 1999-244045/20.

Producing specific polynucleotides using rolling templates.

Example 5; Page 38; 109pp; English.

The invention relates to a method for producing polynucleotides having a defined sequence using rolling templates that successively add nucleotides (nts) to a longer primer strand. The method comprises: (i) incubating, under annealing conditions, a primer and a template that has

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the 3'-region not complementary to the primer, a 3'-region complementary to the 3'-red of primer and a non-reactive 3'-remninus, with the template being shorter than the primer; (ii) reacting the primer with at least one in in presence of a template-dependent polymorlectide polymerase to extend it by at least one in (complementary to the 5'-region of template) at its 3'-end; (iii) separating the template and the extended primer; and it is 3'-end; (iii) separating the template and the extended primer; and the desired polymorlectide. The method is especially used to synthesize the desired polymorlectide. The method provides fast, accurate, inexpensive synthesis of RNA or DNA and is more efficient than chemical coupling processes. It has higher specificity and eliminates the need for deprotection. The products can be cloned directly. The method avoids problems of waste disposal and includes an inherent editing effect (failure sequences will not be extended further in subsequent rounds) so that purification of the end product is facilitated. Synthesis may take place on a vector, simplifying cloning and sequences with codon usage coptimized for a particular host can be prepared

Sequence 15 BP; 5 A; 2 C; 6 G; 2 T; 0 U; 0 Other;

Gaps . 0 0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; tive 0; Mismatches 1; Indels 12, Conservative Local Similarity Matches

; 0

931 TCCCTCCTCTTCA 943

ð g

AAA26829 standard; DNA; 15 AAA26829

BP.

AAA26829;

(first entry) 29-JUN-2000

Trichosporon aquatile polynucleotide sequence SEQ ID NO:96.

Trichosporon genus microbe; detection; species-specific; diagnosis; trichosporosis; ds.

Trichosporon aquatile.

JP2000060564-A.

24-AUG-1998; 29-FEB-2000,

98JP-00237060. 24-AUG-1998;

(IATR) IATRON LAB INC.

WPI; 2000-249679/22.

Species-specific detection of a Trichosporon genus microbe species and a new polynucleotide - used for the diagnosis and the treatment of Trichosporosis.

Disclosure; Page 44; 47pp; Japanese.

The present invention describes a method for the species-specific detection of a Trichosporon genus microbe which includes detecting a polynucleotide specific to the species of a Trichosporon genus microbe. Trichosporon polynucleotides can be used for the diagnosis and treatment of Trichosporonsis. The method can distinguish Trichosporosis species to species level rapidly in high precision. AAA2674 to AAA26849 represent polynucleotide sequences from various Trichosporon species, which are used in the exemplification of the present invention

Sequence 15 BP; 5 A; 2 C; 2 G; 6 T; 0 U; 0 Other;

Gaps Acute diarrhoeal disease, sodB; superoxide dismutase; primer; BR42; bacterial detection; ss. . 0 C. jejuni and C. coli sodB gene downstream bumper primer BR42. Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels AAA58317 standard; DNA; 15 BP. 940 TICATIGGITIAA 952 (first entry) Trcarrectran 13 Campylobacter coli. Campylobacter jejuni. US6066461-A. 17-OCT-2000 23-MAY-2000. AAA58317; Н RESULT 1069 AAA58317/c ઠે a

Campylobacter coli and C. jejuni are causative species of acute diarrhoeal disease in humans. The present invention relates to detection of these bacteria, in humans, by using nucleic acid primers in Strand Displacement Reactions (SDA). These primers are specific for the C. coli and C. jejuni superoxide dismutase (sodB) gene. The present sequence is one such primer, BR42. BR42 is a downstream bumper primer for C. jejuni and C. coli sodB. The primers may be used after culture as means for confirming the identity of the cultured organism, and with clinical samples from humans or animals, e.g. faecal material or with samples of contaminated food or water, for the detection and identification of C. Sequence 15 BP; 4 A; 2 C; 5 G; 4 T; 0 U; 0 Other; ejuni or C. coli

New kit comprising amplification primers AL46, AL44, AL42, AR48, AR44 or AR42, bumpers BL42 or BR42, and detectors DL52 or DR48 useful for detecting Campylobacter jejuni or C. coli sodB gene.

(BECT) BECTON DICKINSON & CO.

You Q,

Mcmillian RA,

WPI; 2000-410645/35.

99US-00289747. 99US-00289747.

12-APR-1999; 12-APR-1999; Claim 1; Col 5-6; 13pp; English.

0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; 7ative 0; Mismatches 1; Indels 1140 CAGCTCCACCTAT 1152 Query Match
Best Local Similarity 92.3
Matches 12; Conservative

14 CAGCTACACCTAT 2

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Gaps

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AAA63414/c ID AAA63414 standard; DNA; 15 RESULT 1070

BB

AAA63414;

99US-0140359P.

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Immunostimulatory nucleic acid; ISNA; human; interferon alpha; IFN-alpha; viral infection; phosphorothioate backbone; palindrome; cancer; ds.
                                                                                                                                                                                                                                                                                                          The present invention relates to an oligonucleotide array comprising oligonucleotide tags fixed to a solid substrate. The oligonucleotide array is useful for genotyping a nucleic acid sample at one or more loci via single base extension (SBE) reactions. A pair of primers is used to amplify a polymorphic locus in a sample e.g. a single nucleotide uspolymorphism (SNE). The present sequence is one of the primers used in the method of the present invention to amplify a polymorphic sample. The amplified nucleic acid product is then used as a template in a SBE reaction with an extension primer. The SBE reaction products are used to
                                                                                                                                                                                         Universal array of oligonucleotides tags attached to a solid substrate along with locus-specific tagged oligonucleotides useful in genotyping using single base extension reactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               involving the administration of an isolated immunostimulatory
                                                                                           Lander ES, Lockhart DJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Poly-G immunostimulatory nucleic acid SEQ ID NO: 129.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 2 A; 3 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                             Kaplan P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Improving the efficacy of treatments interferon-alpha by co-administering
                                    WHITEHEAD INST BIOMEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure, Page 24; 168pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bratzler RL, Krieg A;
                                                                                                                                                                                                                                                                            Example 7; Page 61; 70pp; English.
                                                                                               Huang X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     form the oligonucleotide array
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (COLE-) COLEY PHARM GROUP INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-SEP-2000; 2000WO-US026527.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99US-0156147P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1178 CGGCTCCCCGCAG 1190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IOWA ) UNIV IOWA RES FOUND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14 crecrecedas 2
                                                                                               Hirschhorn JN,
                                                           (AFFY-) AFFYMETRIX INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-290487/30.
                                                                                                                                                         WPI; 2000-656171/63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                               Fan' J, Hirschhorn
Ryder I, Sklar P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200122990-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nucleic acid.
23-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hartmann G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-JUN-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF98848;
                                      (WHED)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 1072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Loca
Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention is concerned with the elucidation of the gene cluster from Streptomyces globisporus which regulates enediyne C-1027 synthesis. Enediyne C-1027 is an antibiotic, consisting of an apoprotein and a non-peptidic chromophore, which causes damage to DNA. The primers AAA63353-A63451 were used to isolate the open reading frames which comprise the gene cluster. The sequences within the gene cluster can be used to produce the protein and to identify antagonists, both of which can be used in the treatment of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligonucleotide array, genotyping, single base extension reaction, SBE, PCR primer; polymorphic locus, single nucleotide polymorphism; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Isolated nucleic acid comprising a nucleic acid encoding any of C-1027 open reading frames (ORFs) -7 to 42, excluding ORF 9 (cagA), useful for the production of enediyne C-1027 antitumor antibiotics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                 C-1027 biosynthesis gene cluster; apoprotein; chromophore;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 11.4; DB 1; Length 15;
Pred. No. 6.5e+02;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Forward primer #125 used in multiplexing PCR/SBE assay.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Seguence 15 BP; 4 A; 1 C; 8 G; 2 T; 0 U; 0 Other;
                                                             C-1027 gene cluster reverse PCR primer for ORF 23
                                                                                                                                                                                                                                                                                                                                                                                                                        Standage S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure, Page 17; 160pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                        Liu W, Christenson SD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27-MAR-2000; 2000WO-US008069.
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Best Local Similarity 92.3%;
Matches 12; Conservative (
                                                                                                                                                                                                                                                                                                                         06-JAN-1999; 99US-0115434P.
                                                                                                                                                                                                                                                                                  06-JAN-2000; 2000WO-US000446.
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                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14 ccrrcaccrcars 2
                                                                                                                                                               Streptomyces globisporus
                                                                                                                                                                                                                                                                                                                                                                                  (REGC ) UNIV CALIFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-465947/40.
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                                                                                                                                                                                                      WO200040596-A1
                                                                                                    Enediyne C-102'
PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-MAR-1999;
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                         36-MAR-2001
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1071 RESULT 107; AAC73569/c

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Shen B,

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present sequence may have a phosphorothioate backbone

Sequence 15 BP; 3 A; 2 C; 8 G; 2 T; 0 U; 0 Other;

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The present invention relates to a method for stimulating an immune response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The method is also useful for preventing cancer, asthma, infectious disease, allergy or immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells. Note: the
                 The present invention describes an improvement to a method requiring the administration of interferon alpha (IFN-alpha), involving administering an immunostimulatory nucleic acid (ISNA). The sequences of a number of such nucleic acids are also provided. These may comprise oligonucleotides with phosphorothioate backbones, palindromes, or G-rich sequences. The sequences of the invention are useful in the treatment of proliferative diseases, such as cancers, and viral infections. The present sequence is an example of an immunostimulatory oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immnostimulatory; tumour; viral infection; bacterial infection; fungal infection; cancer; asthma; infection; parasitic infection; cancer; asthma; infectious disease; allergy; immune deficiency; phosphorothicate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diseases, allergies and asthma nucleic acids.
                                                                                                                                                                                                                                                                                       Gaps
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                                                                                                                                                                                                                                          0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; iive 0; Mismatches 1; Indels
                                                                                                                                                                                                     Sequence 15 BP; 3 A; 2 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vaccinating against tumors, infectious using immunostimulatory Py-rich and TG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Immunostimulatory nucleic acid #827.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 101; Page 56; 338pp; English.
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27-SEP-1999; 99US-0156135P.
23-AUG-2000; 2000US-0227436P.
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                                                                                                                                                                                                                                                                                                                            1019 AAGAGGGGGAGCT 1031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF99711 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                 ATGAGGGGGGGCT 15
                                                                                                                                                                                                                                                                 Local Similarity 92.3
nes 12; Conservative
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(COLE-) COLEY PHARM GMBH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-273485/28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAF99711;
                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 1073
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                    Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neobascular condition; the retina; ss.
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                                     Gaps
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Length 15;
                                     1; Indels
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Score 11.4; DB 1;
Pred. No. 6.5e+02;
0; Mismatches 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 6; Page 42; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vessels or any other hyperplasia
                                                                                                                                                                                                                     AAF46483 standard; DNA; 15 BP
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                                                                                                                                                                                                                                                                                                                                         IGFBP2 oligonucleotide #1322.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-JUN-2000; 2000WO-AU000693
Query Match
Best Local Similarity 92.3%;
                                                                              1019 AAGAGGGGGAGCT 1031
                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                    3 ATGAGGGGGAGCT 15
                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-041421/05.
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Matches
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                                                                                                                                                                                                                                                                                                                                                                     Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein, IGFB-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, keratosis; neoplasia; scaleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia, kidney disease; neobactic of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                         Gaps
                                         ..
  Score 11.4; DB 1; Length 15;
Pred. No. 6.5e+02;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Seguence 15 BP; 1 A; 9 C; 3 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 7; Page 44; 201pp; English.
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    0.5%;
                    92.3%;
                                                                             1258 CCCAACCCCTTC 1270
                                                                                                                                                                                                                   AAF46637 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                    GFBP3 oligonucleotide #57.
                                                                                                                                                                                                                                                                                            (first entry)
Query Match 0.5
Best Local Similarity 92.3
Matches 12; Conservative
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                                                                                                                     CACAACCCCCTTC 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-JUL-1999;
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                                                                                                                                                                                                                                                          AAF46637;
                                                                                                                     15
                                                                                                                                                                             RESULT 1075
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insuln-like Growth Factor [IGF] receptor, IGF binding protein [IGFBP] -2 or IGFBP3, which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or orher disorders. The present esquence is an oligonuclectide which can be used to design the antisense oligonuclectide which can be used to design the antisense oligonuclectides of the present invention (see AAF45151 and AAF45153 oligonuclectides of the present invention (see AAF45151 and AAF45153 in thinyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hypericonsense in a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, hypergroliferation of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                         Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; linsulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neobascular condition; hyperplasia; kidney disease;
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Pred. No. 6.5e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Edmondson SR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 6; Page 42; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vessels or any other hyperplasia
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                                                                                                                                                                                                              IGFBP2 oligonucleotide #1325.
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                                                                                              AAF46486 standard; DNA; 15
                                                                                                                                                                        (first entry)
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Best Local Similarity 92.3
Matches 12; Conservative
13
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ccccarccradca
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                                                                                                                                   AAF46486;
                                                         RESULT 1076
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Gaps

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Score 11.4; DB 1; Length 15; Pred. No. 6.5e+02; 0; Mismatches 1; Indels

Query Match
Best Local Similarity 92.3%;
Matches 12; Conservative

(first entry)

30-MAR-2001

AAF52636;

schultz451-1.rng

Tue Mar

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Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatoosis, neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplais; xidney disease; neoblation of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15 BP; 3 A; 5 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                              Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                   (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 8; Page 66; 201pp; English.
                       AAF49844 standard; DNA; 15 BP
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                                                                                                                                                                                                                                                                                                                                                          21-JUN-1999; 99US-0140345P
                                                                                                     IGF-I oligonucleotide #804
                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                            Wraight CJ, Werther GA,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inflammation
                                                                             30-MAR-2001
                                                                                                                                                                                                                                                    Homo sapiens
                                                  AAF49844;
RESULT 1077
            AAF49844
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticense oligomucleotide, (for Insulin-like Growth Factor IGRF)—1 receptor, IGF binding protein [IGFSP]—2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation.

In inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide is useful for ameliorating the effects of psoriasis, rothyyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, chrowing disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia

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Gaps
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0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; rative 0; Mismatches 1; Indels
                                Conservative
            Local Similarity
les 12; Conserv
 Query Match
                              Matches
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1040 CTACTACTAGGC 1052 CTACTACTATGCC 13

ДD

RESULT 1078 AAF52636/c ID AAF52636 standard; DNA; 15 BP.

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Antisense therapy, antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; vincide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; kearsosis; neoplasia; sclaroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                   Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                     Werther GA, Edmondson SR
                                                                                                                                                                                                                                                                                                                            (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                    99US-0140345P.
                                                                                                                                                                                                                                                                           21-JUN-2000; 2000WO-AU000693.
                                                            IGF-I oligonucleotide #3596.
                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-041421/05.
                                                                                                                                                                                                                          WO200078341-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                           inflammation.
                                                                                                                                                                                                   Homo sapiens.
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense objectide, (for Insulin-like Growth Factor [IGRF-1] creeptor, IGF binding protein [IGFBB-2] or IGFBB3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, coligonucleotide which can be used to design the antisense oligonucleotides of the present interaction the antisense oligonucleotides of the present invention (see AAP45151 and AAP45153-CP F45161). The method is useful for ameliorating the effects of psoriasis, inthium of the present invention (see AAP45151 and AAP45153-CP F45161). The method is useful for ameliorating the effects of psoriasis, inchipation in the present invention and provide skin, a collabsias, scleroderma, warts, benign growths, cancers of the skin, a complasias, scleroderma, marts, benign growths, cancers of the skin, a companion of present inventediated malignancies, other sclerodic disease, kidney disease, hyperproliferation of the inside of blood collabsias or any other hyperplasia

Example 8; Page 84; 201pp; English.

Gaps .. 0 Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels Sequence 15 BP; 4 A; 2 C; 5 G; 4 T; 0 U; 0 Other;

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멾 AAF46636 standard; DNA; 15 14 GACTCCATCCTTG 2 RESULT 1079 AAF46636 axxxa axxxa

1219 GACCCCATCCTTG 1231

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(first entry) 30-MAR-2001

AAF46636;

Tue Mar

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IGFBP3 oligonucleotide #56
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Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding procein, IGFBP-2; IGFBP3; inflammation, psoriasis, pilaris, growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, kearcosis, neoplasia; scleroderma, wart; skin cancer; sclerotic disease; hypermeovascular condition, hyperplasis, kidney disease; neovascular condition, free events.

Homo sapiens.

WO200078341-A1.

28-DEC-2000

21-JUN-2000; 2000WO-AU000693

99US-0140345P. 21-JUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Wraight CJ, Werther GA,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering V (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 7; Page 44; 201pp; English

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an entisense oligomuclectide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP], which is capable of inhibiting or reducing growth factor mediated cell proliferation, in inhibiting or reducing growth factor mediated cell proliferation, oligomuclectide which can be used to design the antisense oligomuclectides of the present invention (see AAF45151 and AAF45153 - F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, cohthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic vascals or any other hyperproliferation of the inside of blood vessels or any other hyperplasia

Sequence 15 BP; 1 A; 9 C; 3 G; 2 T; 0 U; 0 Other;

Gaps ; 0 Score 11.4; DB 1; Length 15; Pred. No. 6.5e+02; 0; Mismatches 1; Indels Query Match
Best Local Similarity 92.3%;
Matches 12; Conservative (

1221 CCCCATCCTTGCG 1233 ccccArccracc 14

ò Б

AAF49433 standard; DNA; 15 AAF49433; RESULT 1080 AAF49433 SXSXEXEXEXE

(first entry) 30-MAR-2001 IGF-I oligonucleotide #393

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;

cytostatic; dermatological; cardiant; virucide; ophthalmological; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

Homo sapiens.

WO200078341-A1.

28-DEC-2000

21-JUN-2000; 2000WO-AU000693.

21-JUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST

Werther GA, Edmondson SR;

WPI; 2001-041421/05

Wraight CJ,

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 8; Page 63; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticomplete of antisense oligonucleotide, (for Insulin-like Growth Factor IIGF)-1 creceptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, or inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide is useful for ameliorating the effects of psoriasis, coligonucleotide is useful for ameliorating the effects of psoriasis, colthyposis, pityriasis, ruba, pilaris, serborrhoea, keloids, kertosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperpector mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood covered to the series or any other hyperplasia

Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 U; 0 Other;

.; 0 0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; ative 0; Mismatches 1; Indels Query Match
Best Local Similarity 92.3*
Matches 12; Conservative

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Gape

900 CCTGGTCATTTC 912 1 CCTGGTCATCTTC 13 ò 음

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1081

AAF49841 standard; DNA; 15 BP.

AAF49841;

(first entry)

30-MAR-2001

IGF-I oligonucleotide #801.

Antisense therapy, antiproliferative, antiinflammatory; antipsoriatic, cytostatic, dermatological; cardiant; virucide, ophthalmological; keloid; skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF IGF binding protein; IGFB-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor IIGF]—I receptor, IGF binding protein [IGFP]—2 or IGFPP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the artisense oligonucleotide which can be used to design the artisense oligonucleotides of the present invention (see AAF45151 and AAF45153—10 oligonucleotides of the present invention (see AAF45151 and AAF45153—10 oligonucleotides of the present invention (see AAF45151 and AAF45153—10 oligonucleotides of the present invention (see AAF45151 and AAF45153—10 oligonucleotides of the present invention growths, cancers of the skin, a neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperprolasian condition of the inside of blood disease, hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ameliorating the effects of a disorder, e.g. psoriasis, by administering V (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
  keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
hyperneovascular condition; hyperplasia; kidney disease;
neovascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15 BP; 4 A; 6 C; 1 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                   Wraight CJ, Werther GA, Edmondson SR,
                                                                                                                                                                                                                                                                                                                     MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 8; Page 66; 201pp; English.
                                                                                                                                                                                                                                                                          99US-0140345P.
                                                                                                                                                                                                                              21-JUN-2000; 2000WO-AU000693
                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-041421/05.
                                                                                                                                     WO200078341-A1.
                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                       21-JUN-1999;
                                                                                                                                                                                28-DEC-2000
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleoride, (for Insulin-like Growth Factor [GP]-1 receptor, IGF binding protein [GFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders, the present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153- F45161). The method is useful for ameliorating the effects of psoriasis, inchipyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidhey disease, hyperproliferation of the inside of blood vessels or any other hyperplasia

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

Example 7; Page 53; 201pp; English.

inflammation.

Edmondson SR,

Werther GA,

Wraight CJ,

WPI; 2001-041421/05.

(MURD-) MURDOCH CHILDRENS RES INST.

21-JUN-2000; 2000WO-AU000693.

21-JUN-1999;

WO200078341-A1.

28-DEC-2000

Homo sapiens.

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0; Gaps

Sequence 15 BP; 4 A; 8 C; 1 G; 2 T; 0 U; 0 Other;

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Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGFP-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neoblasia; condition; hyperplasia; kidney disease;
0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; ative 0; Mismatches 1; Indels
                                                                                                                                                                                                                        BP.
                                                                                                                                                                                                                                                                                                                                    IGFBP2 oligonucleotide #440.
                                                                                      1085 CAGGCTTCACCCC 1097
                                                                                                                                                                                                                        AAF45601 standard; DNA; 15
                                                                                                                                                                                                                                                                                                  30-MAR-2001 (first entry)
                                                                                                            3 CACGCTTCACCCC 15
          Query Match 0.58
Best Local Similarity 92.33
Matches 12, Conservative
                                                                                                                                                                                                                                                              AAF45601;
                                                                                                                                                                                  RESULT 1083
AAF45601/c
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0
                                                                                                                            0; Gaps
                                                                                    Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                              IGFBP3 oligonucleotide #1360.
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1039 ACTACTACTAAGC 1051

ACTACTACTATGC 15

g

à

AAF47940 standard; DNA; 15

RESULT 1082 AAF47940 (first entry)

30-MAR-2001

AAF47940;

WO200078341-A1

Homo sapiens.

Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, Keloid, skin discorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding protein, IGFBP-2; IGFBP3; inflammation, psoriasis, pilaris, growth factor mediated cell proliferation; ichthyosis, serborinoea; ruba; keatosis, neoplasia, scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia, kidney disease; neovascular condition; theraps, ss.

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticoperation (for Insulin-like Growth Factor [1679-] receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation.

Inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be useful for ameliorating the effects of psoriasis, cliphorals, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, besses, kidney disease, hyperproliferation of the inside of blood is easels or any other hyperplasia
                                                                                                                                                                                                                                                Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 1 A; 5 C; 8 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                  Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                       Example 6; Page 36; 201pp; English.
                                                                                                                          (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                  99US-0140345P.
                                        21-JUN-2000; 2000WO-AU000693
                                                                                                                                                                Werther GA,
                                                                                                                                                                                                          WPI; 2001-041421/05
                                                                                                                                                                                                                                                                                                                 inflammation.
                                                                                  21-JUN-1999;
                                                                                                                                                                Wraight CJ,
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Query Match

0.5%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 6.5e+02;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps

AAF46635 standard; DNA; 15 30-MAR-2001 (first entry) AAF46635; RESULT 1084 AAF46635

IGFBP3 oligonucleotide #55.

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; vitunide; ophthalmological, teloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated call proliferation; ichthyosis; serborrhea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

Homo sapiens.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693

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The present invention relates to a method for ameliorating the effects of artisense oligonucleotide, (for Invalin-like Growth Factor [IGF] receptor, IGF binding protein [IGFSP] -2 or IGFBP3), which is capable inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the artisense oligonucleotides of the present invention (see AAF$151 and AAF$153 - P45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, hyperproliferation of the inside of blood
                                                                                                                                                           Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 1 A; 9 C; 3 G; 2 T; 0 U; 0 Other;
                                                                                Edmondson SR;
                                       (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                   Example 7; Page 44; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vessels or any other hyperplasia
  99US-0140345P.
                                                                                gA,
                                                                                Werther
                                                                                                                     WPI; 2001-041421/05.
21-JUN-1999;
                                                                                5
                                                                                  Wraight
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.. 0 0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; ive 0; Mismatches 1; Indels 1221 CCCCATCCTTGCG 1233 3 CCCCATCCCTGCG 15 Local Similarity 92.3 hes 12; Conservative Query Match Matches

RESULT 1085

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Gaps

AAF49430 standard; DNA; 15 BP IGF-I oligonucleotide #390 (first entry) 30-MAR-2001 AAF49430; AAF49430

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic; cytostatic, dermatological; cardiant, virucide, ophthalmological; keloid, skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease;

Homo sapiens.

WO200078341-A1.

28-DEC-2000

21-JUN-2000; 2000WO-AU000693.

99US-0140345P. 21-JUN-1999; MURD-) MURDOCH CHILDRENS RES INST

schultz451-1.rng

Edmondson SR;

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [GG]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4151 and AAF45153-67516). The method is useful for ameliotating the effects of psoriasis, ichthyosis, pityriasis, ruba, plaris, serborrhoea, keloids, keratosis, hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, hyperproliferation of the inside of blood Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or Seguence 15 BP; 1 A; 6 C; 3 G; 5 T; 0 U; 0 Other; Example 8; Page 63; 201pp; English. vessels or any other hyperplasia Werther GA, WPI; 2001-041421/05. inflammation. CJ, Wraight

0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; ative 0; Mismatches 1; Indels 12; Conservative Local Similarity Query Match Best Loca Matches

0; Gaps

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RESULT 1087

AAF45598 standard; DNA; 15 BP. AAF45598; RESULT 1086 AAF45598/c

IGFBP2 oligonucleotide #437. (first entry) 30-MAR-2001

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF1-; ptryitasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neoblasis condition; the retina; ss.

Homo sapiens

WO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693

MURD-) MURDOCH CHILDRENS RES INST

99US-0140345P.

21-JUN-1999;

Werther GA, Wraight CJ,

WPI; 2001-041421/05

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an control of contisense oligonucleotide, [for Insulin-like Growth Factor [IGF]-1 completes of the present factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, of inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation is useful for ameliorating the effects of psoriasis, relatively in pryriasis, ruba, planis, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hypernecvascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 1 A; 5 C; 8 G; 1 T; 0 U; 0 Other;
                                                                                                                                          Example 6; Page 36; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1050 GCCCCTGGCCCCA 1062
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15 GCCCTGGCCGCA 3
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Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor. I receptor; IGF-1; pityriasis; IGF binding protein; IGFB-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scalaroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease; IGF-I oligonucleotide #3597. AAF52637 standard; DNA; 15 30-MAR-2001 (first entry) AAF52637; AAF52637

Homo sapiens.

WO200078341-A1.

28-DEC-2000.

21.JUN-2000; 2000WO-AU000693.

99US-0140345P. 21-JUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST.

Wraight CJ, Werther GA, Edmondson SR;

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV'(ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

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skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-like Growth Factor [167]-1 receptor, 1GF binding protein [16FB9]-2 or IGFB9], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-154516). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplastas, soleroderma, warts, benigm growths, cancers of the skin, a hypernecvascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperplasia
                                                                              The present invention relates to a method for ameliorating the effects of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Seguence 15 BP; 4 A; 2 C; 5 G; 4 T; 0 U; 0 Other;
                             Example 8; Page 84; 201pp; English
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Gaps
                                                                 .
0
Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels
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AAF47947 standard; DNA; 15 BP (first entry) 30-MAR-2001 AAF47947; RESULT 1088 AAF47947

IGFBP3 oligonucleotide #1367.

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; Kaloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; kearcosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplama; kidney disease; neobation of the retina; ss.

Homo sapiens.

WO200078341-A1.

28-DEC-2000,

21-JUN-2000; 2000WO-AU000693

99US-0140345P. 21-JUN-1999; MURD-) MURDOCH CHILDRENS RES INST.

Werther GA,

Wraight CJ,

Edmondson SR;

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering V (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 7; Page 53; 201pp; English.

The present invention relates to a method for ameliorating the effects of

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is a probe used to detect polymorphisms in the human osteoclastogenesis inhibitory factor (TNRRSF11B). Polymucleotides comprising one or more of twenty four novel single nucleotide polymorphisms in the TNRSF1B gene have been identified. TNRRSF1B regulate osteoclast recruitment and function. An understanding of variations in the gene should thus be useful in developing new therapies for metabolic disorders caused by abnormal osteoclast recruitment and function such as osteoporosis, metastatic bone disease, Paget's disease, rheumatoid arthritis and periodontal bone disease
skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFB]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serbornhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human Osteoclastogenesis Inhibitory Factor nucleotides, comprising single nucleotide polymorphisms, useful for studying e.g. osteoporosis, Paget's disease and rheumatoid arthritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human, TNFRSF11B; osteoclastogenesis inhibitory factor; single nucleotide polymorphism; SNP; osteoclast recruitment; osteoclast function; osteoporosis; metastatic bone disease; Paget's disease; rheumatoid arthritis; periodontal bone disease; ASO;
                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                    ö
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O.5%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 6.5e+02;
Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Duda A, Nandabalan K, Stephens JC;
                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 2 A; 10 C; 0 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human INFRSF11B gene ASO probe, SEQ ID NO: 109.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           allele-specific oligonucleotide; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 15; Page 23; 114pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВР.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-JUL-2000; 2000WO-US018803.
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                                                                                                                                                                                                                                                                                                                                                                                                                                             1090 TTCACCCCCACC 1102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAF70053 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 TTCACCCCCACTC 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-147175/15.
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Gaps

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Mismatches

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12; Conservative
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is that of the top strand of a double-stranded oligonuclectide probe corresponding to GRR of the FogR1 gene. The probe was used in electrophoretic mobility shift assay of HepG2 cells that had been transfected with recombinant variants of the human interleukin 10 receptor alpha subunit (II-10RA) and control. A single nuclectide polyamphism has been discovered in the II-10RA gene (see AAH27020), which causes the amino acid at position 31 to change from a Gly to an Arg. The invention provides variant human II-10RA polyapptides and nucleic acids encoding them. The variants have an amino acid substitution at position Gly31 and/or Ser159 or from position Leu62 of the standard II-10RA sequence (see AAB82983). They display at least 3-fold modified, are useful in preparing antibodies, agonists and antagonists useful for diagnosing or treating various II-10 or receptor-related medical conditions, e.g. cronn's disease, inflammatory bowel disease, ulcerative collitis, autoimmune conditions such as systemic lupus erythematosus and rheumatoid arthritis, septic and toxic shock, and infection
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New mammalian interleukin 10 receptor variants, useful for screening agonists and antagonists of the IL-10 receptor ligands or for producing reagents for diagnosing or treating e.g. autoimmune conditions, or septic
                                                                                                                                                                                                                                                                                                                                                                                                                                                         FcgR1; interleukin 10 receptor; IL-10RA; human; Crohn's disease; infilammarcry bowel disease; ulcerative colitis; autoimmune disease; systemic lupus erythematcsus; rheumatoid arthritis; septic shock; toxic shock; infection; diagnosis; therapy; probe; ss.
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0
                                                       0.5%; Score 11.4; DB 1; Length 15; larity 92.3%; Pred. No. 6.5e+02; Conservative 0; Mismatches 1; Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 11.4; DB 1; Length 15;
Pred. No. 6.5e+02;
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                 Sequence 15 BP; 7 A; 3 C; 3 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                      FcgR1 gene GRR top strand oligonuclectide probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; Page 25; 58pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Reinisch W;
                                                                                                                                                                                                                                                                                           BP.
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                                                                                                                                              906 CATTTTTTGGT 918
                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                    15 CATTTACTTTGGT 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-638950/73.
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(ZAKE/) ZAKERI S M.
                                                                           Local Similarity
Les 12; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             shock conditions.
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                                                                                                                                                                                                                                                                                                                                                                           21-DEC-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-SEP-2001.
                                                                                                                                                                                                                                                                                                                                     AAH27026;
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                                                            Query Match
                                                                                                                                                                                                                                                     RESULT 1090
                                                                                                    Matches
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Best Local Similarity

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention provides the sequences of several probes and PCR primers directed at the superoxide dismutase (sodB) gene for use in identifying the presence of E. coli or C. jejuni in a sample. These organisms are the cause of acute diarrhoeal disease in humans, and their rapid identification enables the appropriate treatment to be determined. The probes and primers can be used to identify the organisms in cultured samples, clinical samples such as faecal material and food and water
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel oligonucleotide primers for amplification and detection of superoxide dismutase target sequences found in Campylobacter jejuni and Campylobacter coli.
                                                                                                                                                                                                                                                                                                                                                                 Organism identification; superoxide dismutase; sodB; acute diarrhoea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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Pred. No. 6.5e+02;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 4 A; 2 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                  C jejuni/ E coli detection PCR primer BR42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 4; Col 5-6; 13pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fort TL, You Q, Mcmillian RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (BECT ) BECTON DICKINSON & CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF69384 standard; DNA; 15 BP.
                                                                                                                                                                   AAC67086 standard; DNA; 15 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-00289747.
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Best Local Similarity 92.3%;
Matches 12; Conservative
995 TITGIGGGAAIC 1007
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                                              15 Tricreseaaarc
                                                                                                                                                                                                                                                                                                                                                                                           probe; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Campylobacter jejuni.
Escherichia coli.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-101735/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-APR-1999;
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                                                                                                                                                                                                                    AAC67086;
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Page 514

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schultz451-1.rng
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                                                                                                                                                                                                                                                                                                                                                     The present invention relates to polymorphisms of the human interleukin 4 receptor-alpha gene (IL4R-alpha; see AAF5718 for the reference sequence). Polymucleotides comprising polymorphic gene variants are useful for therapeutic purposes. For example, where a patient may benefit from expression of a particular IL4Ralpha protein isoform, an expression of a particular IL4Ralpha protein isoform, an expression desirable to decrease or block expression of a particular IL4Ralpha isogene, which may be done by turning off by transforming a targeted organ, tissue or cell population with an expression vector that expresses high levels of untranslatable mRMA for the isogene. Specific therapeutics identified by these methods may be useful for allergic diseases. The present sequence is a probe for human IL4R-alpha
                                                                                                                                                                                                                                                                                 New isolated polynucleotide useful for the identification of therapeutics in allergic diseases is new.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Gaps
   interleukin 4 receptor-alpha; IL4R-alpha;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 11.4; DB 1; Length 15;
Pred. No. 6.5e+02;
0; Mismatches 1; Indels
                                                                                                                                                                                                                Duda A, Nandabalan K, Stephens JC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 5 A; 3 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                             Claim 15; Page 42; 188pp; English
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AAF73900 standard; DNA; 15 BP.
                                                                                                                                                                                   (GENA-) GENAISSANCE PHARM INC
                                                                                                                           13-JUL-2000; 2000WO-US019094.
                                                                                                                                                        99US-0143435P.
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Best Local Similarity 92.3%;
Matches 12; Conservative
Polymorphism; human; interle
allergic disease; probe; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               900 CCTGGTCATTTTC 912
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                                                                                                                                                                                                               Chew A, Denton RR, Windemuth AK;
                                                                                                                                                                                                                                                         WPI; 2001-103078/11.
                                                                       WO200104270-A1
                                           Homo sapiens
                                                                                                                                                       13-JUL-1999;
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The present invention relates to a polymorphic variant of a reference sequence for the solute carrier family 6 neurotransmitter transporter, serotronin member 4 (SLC6A4) gene or a fragment of it or a sequence complementary to the first sequence. The invention is used in producing a recombinant organism that can be used to express SLC6A4 for protein structure analysis and binding studies. A composition comprising a genotyping oligonucleotide is used to detect a polymorphism in the SLC6A4

Sequence 15 BP; 1 A; 4 C; 3 G; 7 T; 0 U; 0 Other;

New isolated polynucleotide comprising a polymorphic variant for the solute carrier family 6 neurotransmitter transporter, serotonin member 'gene for identifying drugs for treating disorders related to expression of the protein.

Claim 12; Page 21; 152pp; English.

Stephens JC;

Sanchis A,

Nandabalan K,

Duda A,

Denton RR,

WPI'; 2001-123317/13

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a polymorphic variant of a reference sequence for the solute carrier family 6 neurotransmitter transporter, serotronin member 4 (SLC6A4) gene or a fragment of it or a sequence complementary to the first sequence. The invention is used in producing recombinant organism that can be used to express SLC6A4 for protein
                                                                                                                                                                                                                                                                                                      Solute carrier family 6 neurotransmiter transporter; sectonin 4; SLC6A4; genotyping; allele specific oligonuclectide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New isolated polynucleotide comprising a polymorphic variant for the solute carrier family 6 neurotransmitter transporter, serotonin member 4 gene for identifying drugs for treating disorders related to expression of the protein.
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Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                         Human SLC6A4 allele-specific oligonucleotide primer #18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nandabalan K, Sanchis A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 12; Page 21; 152pp; English.
                                                                                                                                                                              BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-JUL-2000; 2000WO-US020638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99US-0146290P
                                                                                                                                                                              AAF73898 standard; DNA; 15
                                                                729 CCAGGAGAACAG 741
                                                                                                                                                                                                                                           (first entry)
                                                                                                13 ccadaadaacad 1
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                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                           30-APR-2001
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                                                                                                                                                                                                            AAF73898;
                                                                                                                                               RESULT 1094
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Solute carrier family 6 neurotransmiter transporter; sectonin 4; SLC6A4; genotyping; allele specific oligonuclectide; ss.

(GENA-) GENAISSANCE PHARM INC

99US-0146290P

29-JUL-1999;

31-JUL-2000; 2000WO-US020638

WO200109161-A1.

08-FEB-2001

Human SLC6A4 allele-specific oligonucleotide primer #20.

(first entry)

30-APR-2001

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structure analysis and binding studies. A composition comprising a genotyping oligonucleotide is used to detect a polymorphism in the SLC6A4
                                          gene
888888
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Sequence 15 BP; 0 A; 4 C; 4 G; 7 T; 0 U; 0 Other;

Gaps ; 0 Score 11.4; DB 1; Length 15; Pred. No. 6.5e+02; 0; Mismatches 1; Indels ch l Similarity 92.3%; 12; Conservative Query Match Best Local (

729 CCAGGAGAACAG 741

CCAGAAGAACAG 1 13

g ò

RESULT 1095 ABA03629

ABA03629 standard; DNA; 15 BP

ABA03629;

(first entry) 08-FEB-2002

Human API-112 preferred probe #6.

Human, neuroprotective; nootropic; gene therapy; vaccine; Alzheimer's disease, Alzheimer's Disease-Associated Feature; AF; Alzheimer's Disease-Associated Protein Isoform; API; tryptic digest; Expression Reference Protein Isoform; ERPI; probe; ss.

Homo sapiens.

WO200175454-A2.

11-OCT-2001.

03-APR-2001; 2001WO-US010908,

03-APR-2000; 2000US-0194504P. 28-NOV-2000; 2000US-0253647P.

(OXFO-) OXFORD GLYCOSCIENCES UK LTD. (PFIZ) PFIZER INC.

Friedman DL, Herath HMAC, Kimmel LH, Parekh RB; Rohlff C, Silber BM, Stiger TR, Sunderland PT; , White F, Williams SA; Townsend RR, Durham KL, Potter DM,

WPI; 2001-639384/73.

Screening for Alzheimer's disease in a mammal, by making two-dimensional array of a feature whose relative abundance correlates with disease, and comparing with abundance of the feature in samples of healthy persons.

Claim 84; Page 157; 162pp; English.

The invention relates to methods for the screening, diagnosis and prognosis of Alzheimer's disease. The methods involve the detection of Alzheimer's Disease-Associated Features (AFS) and Alzheimer's Disease-Associated Features (AFS) and Alzheimer's Disease-Associated Protein Isoforms (AFIS) in cerebrospinal fluid, serum or plasma. The abundance of the AFS and APIS is then normalised to an Expression Reference Protein Isoform (ERPI) in order to determine whether a patient is suffering from, or has a predisposition to, Alzheimer's Disease. The relative abundance of the AFs and APIS correlates with the severity of Alzheimer's Disease. The present sequence is a probe that may be used for screening an API

Seguence 15 BP; 0 A; 7 C; 5 G; 3 T; 0 U; 0 Other;

0 Gaps .. Query Match

0.5%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 6.5e+02;
Matches 12; Conservative 0; Mismatches 1; Indels

1098 CACCCTGGGCTTC 1110

ò 셤 RESULT 1096 AAD2667

AAD26675 standard; DNA; 15 BP.

AAD26675;

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(first entry) 26-MAR-2002 Human GPR31 gene polymorphism detecting ASO probe #9.

Human; G-protein coupled receptor 31; GPR31 protein; haplotyping; genetyping; gene therapy; cancer; polymorphism; ASO; probe; allele-specific oligonucleotide; ss.

Homo sapiens.

WO200190124-A2.

(GENA-) GENAISSANCE PHARM INC

WPI; 2002-089915/12.

The invention relates to genetic variants of human G-protein coupled receptor 31 (GPR31) gene. The invention also relates to compositions and methods for hablotyping and/or genotyping the GPR31 gene in an electron of individual. Polymucleotides of the invention are useful in studying the individual. Polymucleotides of the invention are useful in studying the expression and function of GPR31, and in expressing GPR31 protein for use consider and in studying the effect of GPR31, and in expressing GPR31 protein for use and in studying the effect of the variation on the biological activity of GPR31 as well as on the binding affinity of candidate drugs targetting companies of the haplotyping method is useful for improving the efficiency and creating issaess associated with GPR31 activity e.g. cancer. This can also be used by the pharmaceutical research scientist to validate companies of the treating a specific condition of clinical trials of candidate drugs, for treating a specific condition drugs or disease condition and also be associated with GPR31 activity. The present sequence is an allele specific oligonucleotide (ASO) probe used to detect human GPR31 gene polymorphisms

Sequence 15 BP; 3 A; 6 C; 2 G; 3 T; 0 U; 1 Other;

ô Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 80.0%; Pred. No. 6.5e+02; Matches 12; Conservative 1; Mismatches 2; Indels

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Gaps

1 caccircrecrirade 15

29-NOV-2001.

23-MAY-2001, 2001WO-US016908.

23-MAY-2000; 2000US-0206572P.

Messer C; Lee HH, Duda A, Kazemi A, Bieglecki KM, Novel genetic variants of G-protein coupled receptor gene useful in studying expression and function of the protein, and for screening drugs to treat diseases e.g. cancer.

Claim 16; Page 13; 75pp; English.

1098 CACCCTGGGCTTCAG 1112 δ g

RESULT 1097

516

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The invention describes a method of increasing the yield of a protein from a cell culture. The method comprises switching cells from a replicative to a productive or pseudo-senescent state in one or more cells in the cell culture by transforming cells with a vector expressing a cell cycle inhibitor. The cells can then be maintained in culture for longer periods of time, allowing protein fraction to be collected from the cell culture. The method is particularly useful for allowing controlled protein biosynthetic productivity of cell lines for commercial and research purposes. This sequence represents a tetracycline operator sequence that can be incorporated into the tetracycline regulated retroviral vectors described in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Increasing the yield of a protein from a cell culture, particularly useful for controlled protein biosynthesis of cell lines for commercial or research purposes, comprises causing a pseudo-senescent state in the cell(s) of the culture.
                                                                                                                                  Tetracycline regulated retroviral vector related tetracycline operator.
                                                                                                                                                                                         pseudo-senescence, cell cycle inhibitor; cell culture,
protein biosynthesis; protein yield; ds, tetracycline operator
                                                                                                                                                                    Tetracycline regulated retroviral vector; INtCtX with Poly A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.5%; Score 11.4; DB 1; Length 15; 2.3%; Pred. No. 6.5e+02; ve 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 BP; 4 A; 4 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Levenson V, Primiano T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 6; 46pp; English.
                    ABK12525 standard; DNA; 15 BP
                                                                                                                                                                                                                                                                                                                                                                 21-AUG-2001; 2001WO-US026157.
                                                                                                                                                                                                                                                                                                                                                                                                    21-AUG-2000; 2000US-0226290P
                                                                                             (first entry)
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Query Match
Best Local Similarity 92.3%
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                          (CLON-) CLONEX DEV INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-280932/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bucciarelli T,
                                                                                                                                                                                                                                                                                      WO200216590-A2
                                                                                                                                                                                                                                                 Unidentified
                                                                                           05-JUN-2002
                                                        ABK12525;
ABK12525
ID ABK1
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Novel isolated polymorphic variant polynucleotide of lecithin-cholesterol acyltransferase gene, useful for studying expression and biological function of the gene, and for therapeutic, diagnostic or forensic

Claim 16; Page 17; 72pp; English.

purposes

Stephens JC

Nandabalan K,

(GENA-) GENAISSANCE Chew A, Denton RR, WPI; 2002-557737/59

03-JAN-2001; 2001WO-US000092. 03-JAN-2001; 2001WO-US000092.

WO200253575-A1 Homo sapiens.

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The present invention relates to a new polymucleotide comprising a nucleotide sequence which is a polymorphic variant of a reference connected sequence for lecithin-cholesterol acyltransferase (LCAT). The invention is useful for lecithin-cholesterol acyltransferase (LCAT). The invention cisquence for lecithina association between a trait (preferably a clinical response to drug targeting LCAT) and at least one genotype or haplotype of LCAT gene. The method of the invention has applicability in developing diagnostic tests and therapeutic treatments for Norum disease. The construction and anterosclerctic cardiovascular disease. The flash-eye disease and atherosclerctic cardiovascular disease. The complexity, anthropological lineage, the significance of diversity and lineage at the phenotypic level, patentity testing, forensic applications diversity, anthropological lineage, the significance of diversity and lineage at the phenotypic level, patentity testing, forensic applications and for identifying the LCAT genetic variation and a trail such as level of drug response or susceptibility to disease. In addition, the methods for identifying the LCAT haplotypes present in individuals are useful in the development of drugs targeting the LCAT haplotypes in a population with a specific disease, e.g. Norum disease, will facilitate the development of a collection (ABRG7492-ABRG7519) of allele specific colligonucleotide (ASO) primers that were used in the invention to detect polymorphisms in the human LCAT gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human, protease inhibitor, PI4; kallistatin; therapy, polymorphic site; PS; haplotyping; genotyping; acute pancreatitis; drug screening; antiinflammatory; chromosome 14q31-q32.1; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ASO probe #8 to detect human PI4 gene polymorphisms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 1 A; 4 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 92.3%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-MAR-2002 (first entry)
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11D AAD2
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Gaps

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92.3%;

1204 CCCTATCAGGGG 1216

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2 CCCTATCAGGGAG 14

Homo sapiens

Lecithin-cholesterol acyltransferase; LCAT; Norum disease; gene therapy; fish-eye disease; acremaic; population diversity; anthropological lineage; paternity testing; human; polymorphism; allele-specific oligonucleotide; ASO; PCR; primer; ss.

Human LCAT gene polymorphism detection ASO primer #21.

07-OCT-2002 (first entry)

EEEEKBKBKBKB

ABK97512;

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ABK97512 standard; DNA; 15

RESULT 1098

ABK97512

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The present invention describes an isolated human period (Drosophila)

homologue 1, (PERI) polymucleotide (I) comprising a sequence which is a

conjugation variant for a reference sequence (ABL52077) for the PERI gene

or itse fragment, or a polymorphic variant of a reference sequence

(ABL52078) for a PERI cDNA or its fragment. The present invention also

describes methods for genotyping and haplotyping the PERI gene of an

individual. (I) is useful in studying the expression and function of

PERI, and in expressing PERI protein for use in screening for candidate

cransfected with (I) can be used for studying expression of the PERI

isogenes in vivo, for in vivo screening and testing of drugs targeted

against PERI protein, and for testing the efficacy of therapeutic agents

and compounds for disorders associated with circadian rhythm regulation.

The present sequence represents an allele specific oligonucleotide primer

for human PERI, which is used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                         homolog 1 polynucleotide, useful the expression and function of the homolog.
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/note= "polymorphic site indicated by an ambiguity base"
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polymorphic site; genotyping; haplotyping; circadian rhythm regulation;
single nucleotide polymorphism; SNP; gene; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human PER1 allele specific oligonucleotide primer SEQ ID NO:55.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 80.0%; Pred. No. 6.5e+02; Matches 12; Conservative 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence 15 BP; 5 A; 3 C; 5 G; 1 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                      Novel isolated human period Drosophila
                                                                                                                                                                                                                                                                                                                                                                                                            for therapeutic purposes, for studying polynucleotide, and for expressing the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 17; Page 14; 162pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABL52130 standard; DNA; 15 BP.
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                                                                                                                                                                                                      PHARM INC.
                                                                                13-SEP-2001; 2001WO-US028780.
                                                                                                                                            13-SEP-2000; 2000US-0232468P.
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                                                                                                                                                                                                         (GENA-) GENAISSANCE
                                                                                                                                                                                                                                                                                                                            WPI; 2002-393941/42.
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                            21-MAR-2002.
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                                                                                                                                                                                                                                                                   Duda A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 1101
ABL52130
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to genotyping protease inhibitor (PI) 4

(kallistatin) gene of an individual, involves determining for the two
copies of the PI4 gene present in the individual, the identity of the
nucleotide pair at one or more polymorphic sites. PI4 gene is located on
chromosome 14931-932.1 Genotyping is useful for determining if an
chromosome 14931-932.1 Genotyping is useful for determining if an
condition. Haplotype or haplotype pairs defined in the
specification. Haplotyping is useful for improving the efficacy and
creating diseases associated with PI4 activity, e.g. acute
condition or disease predicted to be associated with PI4
activity, and in the design of clinical trials of candidate drugs for
treating a specific condition or disease predicted to be associated with
Controlly and in the design of clinical trials of candidate drugs for
treating a specific condition or disease predicted to be associated with
Clunction of PI4, and in expressing PI4 protein for use in screening for
candidate drugs to treat diseases related to PI4 activity. The present
candidate drugs to treat diseases related to PI4 activity. The present
condicate drugs as the protein for use in screening for present and manning for present and manning for present pr
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0
                                                                                                                                                                                                                                                                                                                                                                                                                                            Genotyping protease inhibitor 4 gene of individual for determining haplotype of individual, involves determining identity of nucleotide pair at specific polymorphic sites for two copies of gene.
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/note= "polymorphic site indicated by an ambiguity base"
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polymorphic site; genotyping; haplotyping; circadian rhythm regulation;
single nucleotide polymorphism; SNP; gene; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.5%; Score 11.4; DB 1; Length 15; 80.0%; Pred. No. 6.5e+02; tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 15 BP; 5 A; 4 C; 4 G; 1 T; 0 U; 1 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 16; Page 13; 79pp; English.
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                                                                                                                                                                                                                                                                                                                                   Sanchis A;
                                                                                                                                                                                                                                                                      (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                            13-APR-2000; 2000US-0196990P.
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                                                                                                                                                   13-APR-2001; 2001WO-US012255
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12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PI4 gene polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-075060/10
                                                                                                                                                                                                                                                                                                                                   Choi JY, Koshy B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200222650-A2
                                WO200179227-A2
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                                                                                         25-OCT-2001
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Query Match Best Local S

Matches

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ABL52110

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Gaps

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Novel genetic variants of Solute Carrier Family 1 (Glutamate/Neutral Amino Acid Transporter), Member 4 isogenes, for improving efficiency and reliability in drug development for treating cancers.

WPI; 2002-519580/55

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The present invention describes an isolated human period (Drosophila) homologue 1, (PERI) polymucleotide (I) comprising a sequence which is a polymorphic variant for a reference sequence (ABL52079) for the PERI gene or its fragment, or a polymorphic variant of a reference sequence sequence (ABL52078) for the PERI gene of an includual. (I) is useful in studying the expression and function of pERI, and in expressing PERI protein for use in screening for candidate drugs to treat diseases related to PERI activity. (I) is useful for transfected with (I) can be used for studying expression of the PERI isogenes in vivo, for in vivo screening and testing of drugs targeted against PERI protein, and for testing the efficacy of therapeutic agents and compounds for disorders associated with circadian rhythm regulation. The present sequence represents an allele specific oligonucleotide primer for human PERI, which is used in the exemplification of the present
                                                                                                                                                                         Novel isolated human period Drosophila homolog 1 polymucleotide, useful for therapeutic purposes, for studying the expression and function of the polymucleotide, and for expressing the homolog.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Solute carrier family 1; SLC1A4; haplotyping; human; cancer; primer; glutamate/neutral amino acid transporter; neurological disease; PCR; ss; amino acid transporter disorder; single nucleotide polymorphism; SNP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Solute Carrier Family 1 (SLC1A4) allele-specific oligonucleotide #62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.5%; Score 11.4; DB 1; Length 15; 80.0%; Pred. No. 6.5e+02; Live 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 3 A; 7 C; 2 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                  Claim 17; Page 15; 162pp; English.
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13-SEP-2001; 2001WO-US028780
                                  13-SEP-2000; 2000US-0232468P
                                                                                                     Duda A, Kliem SE, Koshy B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 crcacacccarcsc 15
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les 12; Conservative
                                                                    GENAISSANCE
                                                                                                                                         WPI; 2002-393941/42.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Invention
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The invention relates to an isolated polymucleotide (I) comprising a first nucleotide sequence which comprises solute carrier family 1 (2) that nucleotide sequence which comprises solute carrier family 1 (2) cilian an isolated polypeptide (III) comprising an amino acid sequence (II) and an isolated polypeptide (III) comprising an amino acid sequence which is a polymorphic variant of a reference sequence for SLCIA4 gene of an individual; (2) predicting a haplotype pair of SLCIA4 gene of an individual; (2) predicting a haplotype pair for SLCIA4 gene of an individual; (2) predicting a haplotype pair for SLCIA4 gene of an individual; (3) identifying an association between a trait and at least one haplotype or haplotype pair of SLCIA4 gene. (III) Is useful in screening for drugs targeting (III) that are useful for treating cancer, neurological diseases and amino acid transporter disorders. The methods are useful for improving the efficiency and reliability of several steps in the discovery and development of drugs for treating corporated with SLCIA4 activity. The haplotyping method is also used by the pharmaccutical research scientist to validate SLCIA4 as secondated with SLCIA4 activity, e.g. cancer, neurological diseases or candidate target for treating a specific condition of disease associated with SLCIA4 activity, e.g. cancer, neurological diseases creaming scories of targeting SLCIA4. Anti-SLCIA4 antibody is useful in diagnostic, prognostic and therapeutic methods. ABK95761-ABK95807 represent SLCIA4 and related PCR primers used to identify single nucleotide polymorphisms companies.
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Pred. No. 6.5e+02;
1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15 BP; 5 A; 5 C; 1 G; 3 T; 0 U; 1 Other;
                                                                                                      Claim 15; Page 16; 139pp; English.
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Best Local Similarity 80.05
Matches 12, Conservative
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ABL57627/
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Gaps

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Sausker EA;

Kazemi A, Russo DP,

Bieglecki KM,

(GENA-) GENAISSANCE PHARM INC

29-NOV-2001; 2001WO-US044781. 30-NOV-2000; 2000US-0250254P.

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The invention relates to a novel isolated polynucleotide comprising a small inducible cytokine subfamily A (cye-cys), member 24 (SCYA24) isogene. The polypeptide of the invention has antiasthmatic activity. The polynucleotide may have a use in gene therapy. The polynucleotide and polynucleotide are useful in the the development of drugs for treating diseases associated with SCYA24 activity, e.g. respiratory inflammatory diseases such as asthma. Allele-specific oligonucleotide (ASO) primers used for detecting polymorphisms in the SCYA24 gene are represented in ABLS7616-ABLS7645
                  New genetic variants of small inducible cytokine subfamily A member 24 gene, useful in studying expression and function of the protein, and for screening drugs to treat diseases such as asthma.
                                                                                                                        98pp; English
                                                                                                                        Claim 16; Page 14;
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0.5%; Score 11.4; DB 1; Length 15; 80.0%; Pred. No. 6.5e+02; ive 1; Mismatches 2; Indels Sequence 15 BP; 8 A; 0 C; 6 G; 0 T; 0 U; 1 Other; TTTATCCCTCCTCT 941 TYTCHCTCTCTCTT 1 Local Similarity 80.0 les 12; Conservative 927 15 8 8

Angiogenesis inhibitor; ss, angiogenesis, solid tumour growth, tumour metaatasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma; retrolental fibroplasia, rubeosis; Osler-Webber Syndrome; myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joint, angiofibroma, wound granulation, intestinal adhesion, atherosclerosis; scleroderma, hypertrophic scar. Angiogenesis inhibitory oligonucleotide #916. BP. 12 (first entry) ABS78432 standard; DNA; 13-DEC-2002 ABS78432; RESULT 1104 ABS7843;

WO200253141-A2. Synthetic.

11-JUL-2002.

2000US-0255534P. 14-DEC-2000;

14-DEC-2001; 2001WO-US048458,

(COLE-) COLEY PHARM GROUP INC

Sratzler RL;

WPI; 2002-566690/60.

Inhibiting angiogenesis in a subject, involves administering at least one antiangiogenic nucleic acid molecule to the subject.

Claim 2; Page 35; 276pp; English.

The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is

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             tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, hypertrophic scars. The present sequence is an antiangiogenic nucleic acid of the invention
 for inhibiting angiogenesis associated with solid tumour growth,
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Pred. No. 6.5e+02;
0; Mismatches 1; Indels
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Best Local Similarity 92.5.
Best Local 2; Conservative
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Human, intercellular adhesion molecule 2; ICAM2; haplotyping; ss; haplotype pair; single nucleotide polymorphism; genotyping; PCR primer; gene therapy; drug screening; anti-HIV; antiinflammatory; probe; human immunodeficiency virus; sequencing primer. Human ICAM2 gene allele-specific oligonucleotide probe #5. Homo sapiens.

(first entry)

14-FEB-2002

AAS95367;

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Gaps

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WO200185918-A1

15-NOV-2001.

07-MAY-2001; 2001WO-US014714.

05-MAY-2000; 2000US-0201946P.

(GENA-) GENAISSANCE PHARM INC

Nandabalan Lee HH, Kliem SE, Denton RR, WPI; 2002-055590/07. Choi JY, Chew A,

Novel polymucleotide containing polymorphisms in intercellular adhesion molecule 2 gene, useful in developing drugs for treating human immunodeficiency virus infection and inflammatory diseases.

Claim 16; Page 13; 81pp; English.

The invention relates to single nucleotide polymorphisms in the gene encoding human intercellular adhesion molecule 2 (ICAM2). A method for haploryping the ICAM2 gene in an individual comprises identifying the nucleotide at one or more polymorphic sites and determining whether one of the copies of the gene is defined by one of the ICAM2 haplotypes given the specification or whether both copies are defined by a haplotype given in the specification or whether both copies are defined by a haplotype con in the specification or whether both copies are defined by a haplotype or haplotype pair of the ICAM2 gene can be trait and a haplotype or haplotype pair of the haplotype or haplotype pair in a reference population, where a higher haplotype or haplotype pair in the trait with the frequency of the haplotype or haplotype pair. ICAM2 and its corresponding DNA are used for studying the expression and function of ICAM2, for use in screening

schultz451-1.rng

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The invention relates to a method of genotyping bovine for improved milk production traits which comprises determining the diacylglycerol exploration traits which comprises determining the diacylglycerol exploration of the bovine, wherein the DGATI genotypic state of the bovine, wherein the DGATI improved milk production traits. The method is useful for selecting a bovine having a desired DGATI genotypic state. It is also useful for the identification and selection of a bovine having one of the polymorphisms in its DGATI gene. Milk produced from selected bovine which is useful for making a dairy product provides a beneficial health effect. An antibody to the protein having DGATI in a lactating bovine so as to modulate milk
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for candidate drugs to treat diseases related to ICAM2 activity, such as HIV infection and inflammatory diseases. The sequences are also useful for studying the effect of variation on the biological activity of ICAM2 as well as on the binding affinity of candidate drugs targeting ICAM2. Sequences AAS95362-AAS95417 and AAS95419-AAS9542 represent allelespecific oligonucleotide probes, sequencing primers, PCR primers and CDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Determining genetic merit of a bovine with respect to milk composition and volume for improved milk production, comprises determining the diacylglycerol acyltransferase gene genotypic state of the bovine.
                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sovine DGAT1 gene polymorphic region amplifying primer, SNP4_HEX.
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                                                                                                                                       Sequence 15 BP; 2 A; 6 C; 2 G; 4 T; 0 U; 1 Other;
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Spelman RJ;
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                                                                                                                                                                                                                                            862 AAGGGCACTGAGGAC 876
                                                                                                                                                                                                                                                                                                                                                                AAD40384 standard; DNA; 15
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COPPIETERS W H R.
GRISART B M J.
SNELL R G.
REID S J.
                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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Best Local Similarity 80.09
---nes 12; Conservative
                                                                                                                                                                                                                                                             AAGGTCAYTGGGGAC
                                                                                                        encoding human ICAM2
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(REID/)
(FORD/)
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(COPP/)
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The invention comprises the amino acid and coding sequence of the human N accepylgalactosaminidase (NAGA) alpha protein. The invention specifically comprises novel polymorphic sites identified within the NAGA gene. The NAGA gene is located on chromosome 22q13.2-q13.31, and encodes a lysosomal glycohydrolase that cleaves alpha-N-acetylgalactosaminyl moieties in glycoconjugates. The NAGA pNA and protein sequences of the invention are useful for studying the expression and function of NAGA and for screening candidate drugs to treat diseases related to NAGA activity. The NAGA gene polymorphisms identified in the present invention are useful for haplotyping and genotyping the NAGA gene of an individual. The present DNA, sequence represents an N-acetylgalactosaminidase gene allele-
                                                                                                                                                                                                                                             ö
production and/or milk solids content. DGAT1 nucleic acid and its fragments are useful in the farming industry. They are also useful to generate transgenic animals which are useful to investigate the molecular basis of DGAT1 action and to test a substance for the ability to prevent, slow or enhance DGAT1 activity. The present sequence is a PCR primer used for amplifying boxine DGAT1 gene polymorphic region. This sequence is used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New genetic variants of isolated N-acetylgalactosaminidase (NAGA), Alpha gene, useful for therapeutic purposes, for studying the expression and function of the polynucleotide, and for expressing NAGA protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; PCR; primer; 88; gene therapy; N-acetylgalactosaminidase alpha; chromosome 22q13.2-q13.31; lysosomal glycohydrolase; screening; SNP; NAGA-related disease; single nucleotide polymorphism; haplotyping; NAGA;
                                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                                                                                                      1095 CCCCACCTGGGC 1107
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Best Local Similarity 92.3
Matches 12; Conservative
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Query Match Best Local Similarity

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Human, natriuretic peptide receptor A/guanylate cyclase A, NPR1; ss, artionatriuretic peptide receptor A, haplotyping, cytostatic; genotyping, haplotype pair; single nucleotide polymorphism; gene therapy; PCR primer; drug screening; hypertension; hypotensive; sequencing primer; probe.

Human NPR1 gene allele-specific oligonucleotide probe #5.

(first entry)

12-MAR-2002

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The invention relates to haplotyping the apolipoprotein C-IV (APOC4) gene of an individual, comprising determining if the individual has one of the APOC4 haplotypes or haplotype pairs fully defined in the specification. Haplotyping the APOC4 gene of an individual, comprises determining the identity of the nucleotide at two or more polymorphic sites in one copy of the gene. The method also comprises identifying an association between a trait and a haplotype pair of the APOC4 gene, comprising the trait midth that of a reference population. A higher frequency in the trait with that of a reference population. A higher frequency in the trait population indicates the trait is associated with the haplotype. The polynucleotides and screened compounds are useful for developing treatment for diseases associated with APOC4 activity such as hypertriglycerideamia. AASSSS80-AASSSSG4 represent human apolipoprotein C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New haplotypes of human apolipoprotein C-IV gene, useful to diagnose and treat diseases associated with its activity such as hypertriglyceridemia.
   Gaps
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   Mismatches
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                                     1158 CGGTGACTGTCCCAA 1172
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(LEEH/) LEE H H.
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Matches 12; Conservative
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The invention relates to single nucleotide polymorphisms in the gene encoding the human natriuretic peptide receptor A/guanylate cyclase A carriomatriuretic peptide receptor A/guanylate cyclase A carriomatriuretic peptide receptor A, or NPRI polypeptide. A method for haplotyping the NPRI gene in an individual comprises identifying the nucleotide at one or more polymorphic sites and determining whether one of the copies of the gene is defined by one of the NPRI haplotypes given in the specification or whether both copies are defined by a haplotype or in the specification or whether both copies are defined by a haplotype or haplotype pair of the haplotype or haplotype pair of the haplotype or haplotype pair or a population exhibiting the trait with the frequency of the haplotype or haplotype or haplotype or haplotype pair in a reference population, where a higher haplotype or haplotype or haplotype pair. NPRI and its corresponding DNA are used frequency in the trait population indicates the trait is associated with the haplotype or haplotype and function of NPRI, for use in screening for candidate drugs to treat diseases related to NPRI activity, such as hypertension. The sequences are also useful for studying the effect of variation on the biological activity of NPRI sequences AAS99990 and ABK09390-ABK09462 represent probbes, sequencing primers and PCR primers used to detect NPRI gene polymorphisms
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gene of
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an individual, involves determining identity of nucleotide pair at
specific polymorphic sites for two copies of the gene.
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80.0%; Pred. No. 6.5e+02;
tive 1; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                        Choi JY, Kliem SE,
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                                                                                                                                                                                                                                                                                                                              14-APR-2000; 2000US-0197330P.
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Best Local Similarity 80.0°
Matches 12, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-066340/09.
                                                                                                                                                                                                                  WO200179231-A2
                                                                                                                                                                                                                                                                                                                                                                                                        Bentivegna SC,
                                                                                                                                                                                                                                                          25-OCT-2001
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ID AAS167
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AC AAS167
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DT 14-FEB
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Gaps

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1076 GTCCCACTCCAGGCT 1090

15 GYCCTCACCAGGCT 1

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AAS99963 standard; DNA; 15 BP.

AAS99963 RESULT 1109 AAS99963 ID AAS99963 XX AC AAS99963 schultz451-1.rng

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New haplotypes of the human apolipoprotein A-IV gene, useful to diagnose and treat disorders associated with its abnormal expression or function such as coronary artery disease.
                         Human, 88; APOA4; apolipoprotein A-IV; antiatherosclerotic; cardiant;
haplotype; chromosome 11q23-gter; coronary heart disease; obesity;
atherosclerosis; PCR primer.
       Human APOA4 allele specific oligonucleotide, ASO, PCR primer #7.
                                                                                                                                                                             Koshy
                                                                                                                                                                             Kliem SE,
                                                                                                                                                         (GENA-) GENAISSANCE PHARM INC.
                                                                                                                     03-APR-2001; 2001WO-US010670.
                                                                                                                                        JS-APR-2000; 2000US-0194362P.
                                                                                                                                                                                               WPI; 2002-041281/05.
                                                                                WO200177124-A2.
                                                                                                                                                                             Bentivegna SC,
                                                                                                    18-OCT-2001
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Claim 16; Page 15; 71pp; English.

The invention relates to haplotyping the human apolipoprotein A-IV habbah) game of an individual, comprising determining if the individual has one of the APOA4 haplotypes or haplotype pairs fully defined in the specification. Also disclosed are genotyping oligomuclectides (or allele particular haplotype pair with a trait e.g. obesity, in a population. The particular haplotype pair with a trait e.g. obesity, in a population. The APOA4 gene is located on chromosome lag33-qter. The methods of the associated with abnormal APOA4 expression or function, for example coronary heart disease and atherosclerosis. The APOA4 isogenes and screened compounds are useful for the treatment of disorders associated with abnormal APOA4 expression or function such as coronary artery disease. The present sequence is an APOA4 allele specific oligonuclectide, ASO, PCR primer used to detect an APOA4 polymorphism

Sequence 15 BP; 3 A; 1 C; 8 G; 2 T; 0 U; 1 Other;

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Gaps
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0
Score 11.4; DB 1; Length 15;
Pred. No. 6.5e+02;
0; Mismatches 1; Indels
 Query Match
Best Local Similarity 92.3%;
Matches 12; Conservative
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AAS95555 standard; DNA; 15 BP

AAS95555;

(first entry) 14-FEB-2002

Human IL8RB gene allele-specific oligonucleotide sequencing primer #20

Human; interleukin 8 receptor beta; IL8RB; ss; antiinflammatory; probe; haplotypying; haplotype palx; single nuclectide polymorphism; genotyping; gene therapy; drug screening; chronic obstructive pulmonary disease; inflammatory disease; sequencing primer; PCR primer.

Homo sapiens,

WO200179221-A2

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The invention relates to single nucleotide polymorphisms in the human interleukin 8 receptor beta (ILBRB) gene. A method for haplotyping the Library and a receptor beta (ILBRB) gene. A method for haplotyping the Library and determining whether one of the copies of the gene is defined by one of the ILBRB haplotypes given in the copies are defined by a haplotype pair. This method is useful in genotyping, whereby all possible haplotype pair. The method is useful in genotypes. An association between a trait and a haplotype or haplotype pair of the ILBRB gene can be identified by comparing the frequency of the haplotype or haplotype pair of the haplotype pair in a reference population, where a higher haplotype or haplotype pair. ILBRB gene can be identified by comparing the trait population indicates the trait is associated with haplotype pair in a reference population. Where a higher haplotype or haplotype pair. ILBRB and its corresponding DNA are used for studying the expression and function of ILBRB, for use in screening for studying the expression and feather inflammatory disorders. The sequences are also useful for studying the effect of variation on the biological activity of ILBRB as well as on the binding affinity of candidate drugs targeting ILBRB as well as on the binding affinity of candidate drugs targeting ILBRB is Sequencing primers and PCR primers used to detect ILBRB gene polymorphisms
                                                                                                                                                                                                                                                                                              New polymorphic variants comprising interleukin-8 receptor beta (isogene, useful in expressing ILBRB protein for use in screening candidate drugs to treat diseases related to ILBRB activity, e.g. inflammatory disorders.
                                                                                                                                                                                                         Denton RR, Nandabalan K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15 BP; 2 A; 6 C; 2 G; 4 T; 0 U; 1 Other;
                                                                                                                                                                                                         Choi JY,
                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 16; Page 13; 74pp; English.
                                                                                                              12-APR-2000; 2000US-0196734P.
                                                              12-APR-2001; 2001WO-US011942.
                                                                                                                                                                                                                                                      WPI; 2002-055250/07.
                                                                                                                                                                                                         Sentivegna SC,
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Gaps . 0 Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels

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1085 CAGGCTTCACCCC 1097

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RESULT 1112

ABK32741 standard; DNA; 15 BP. ABK32741;

23-APR-2002 (first entry)

Human colorectal and pancreatic cancer SAGE tag #108.

Human; colon cancer; colorectal cancer; pancreatic cancer; SAGB tagerial analysis of gene expression; diagnostic; prognostic; probe; cancer marker; ss.

Homo sapiens

US6333152-B1

25-DEC-2001

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schultz451-1.rng
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Page

The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The cargymetic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV in the aubstrate sequences defined in the specification. The HCV in the specification of control and be used to treat cirrhosis, liver failure and/or replication of hepatocellular carcinoma. The HCV inbozymes are also useful for treating a condition associated with HVV infection in conjunction with one or more other drug therapies, particularly type I interferon. The present conterface is given in the sequence of unknown function. Note: The present sequence is given in the sequence data but is not mentioned elsewhere in the specification. The complete sequence data for this patent was obtained in electronic format directly from the USPTO web site at the sequence of sequence data for this patent was constituted in electronic format directly from the USPTO web site at Seguence 15 BP; 5 A; 6 C; 2 G; 0 T; 2 U; 0 Other;

Gaps ö 0.5%; Score 11.4; DB 1; Length 15; 76.9%; Pred. No. 6.5e+02; ative 2; Mismatches 1; Indels

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ABI99096 standard; DNA; 15 RESULT 1114

(first entry) 27-FEB-2002 AB199096;

Human PCDH2 ASO PCR primer SEQ ID NO 53.

Human; PCDH2; protocadherin 2; haplotyping; polymorphic variant; SNP, single nucleotide polymorphism; cytostatic; cancer; chromosome 5q31; allele-specific oligonucleotide; ASO; PCR primer; ss.

Ношо

Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection; HCV ribozyme; HCV expression; HCV replication; cirrhosis; virucide; liver failure; hepatcocellular carcinoma; HCV infection; drug therapy; type I interferon alpha; interferon beta; cytostatic; 88; interferon gamma; consensus interferon; hepatcotropic; antiinflammatory.

Hepatitis C virus (HCV) ribozyme related RNA sequence #24.

(first entry)

23-DEC-2002

ABX01755;

ABX01755 standard; RNA; 15 BP

RESULT 1113

ABX01755

15 GACCCCAGCCCA 3

Matches

ò a WO200194361-A2. 13-DEC-2001. 06-JUN-2001; 2001WO-US018321.

(GENA-) GENAISSANCE PHARM INC

06-JUN-2000; 2000US-0209564P.

Tanguay DA; Kliem SE, Koshy B,

WPI; 2002-097928/13

New protocadherin 2 (PCDH2) polymorphic variants and encoding genes, useful in expressing PCDH2 protein for screening candidate drugs to treat diseases related to PCDH2 activity.

Claim 16; Page 14; 127pp; English.

The invention relates to haplotyping the protocadherin 2 (PCDH2) gene, comprising determining which of the haplotypes given in the specification defines one or both copies of the individual's pCDH2 gene. The polymorphisms are within a 3044 base pair sequence (ABA05413), fully defined in the specification. The polymorphic variants are useful in

New ribozymes targeting RNA derived from hepatitis C virus inhibit viral replication and are useful to treat hepatitis C virus infections and

Macejack

Pavco PA,

m

Roberts

Mcswiggen JA,

Blatt L,

WPI; 2002-617759/66

MCSWIGGEN J A.

(BLAT/) BLATT L. (MCSW/) MCSWIGGEN J. (ROBE) ROBERTS B. (PAVC/) PAVCO P.A. (MACE/) MACEJACK D.

99US-00274553 99US-00274553

23-MAR-1999; 23-MAR-1999;

27-JUN-2002.

US2002082225-A1.

Unidentified

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cirrhosis, liver failure or hepatocellular carcinoma
                                  Disclosure; SEQ ID NO 1537; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1200 ACCACCCTATCAG 1212
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Best Local Similarity 76.9
Matches 10, Conservative
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                                                                                                                                                                                                                                                                              The invention relates to an isolated, purified human nucleic acid (I) that has the same sequence as a mENA found in humans and is a SAGE (serial analysis of gene expression) tag comprising a single stranded probe containing at least 10 consecutive nucleotides. SAGE tags, are diagnostic and prognostic markers of cancer, especially of the colon and pancreas. ABK31900-ABK22770 represent human colon and pancreatic cancer SAGE tags of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                             New human nucleic acid containing specific SAGE tags, useful as diagnostic markers for cancer, also derived probes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; Live 0; Mismatches 1; Indels
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                                                                                                                         Zhou
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                                                                                                                                                                                                                                                    Disclosure, Col 92; 161pp; English
                                                                                                                         Zhang
                  98US-00081646
                                                      98US-00081646.
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                                                                                         SNINGO NIND ( OFAD)
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                  20-MAY-1998;
                                                      20-MAY-1998;
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brotein for use in some numerical activity in studying the effect of the as cancer, related to PCDH2 activity, in studying the effect of the variation on the biological activity of PCDH2 and the binding affinity of candidate drugs targeting PCDH2. The haplotyping methods are useful in validating PCDH2 as a candidate target for treating a specific condition or disease predicted to be associated with PCDH2 activity or in the design of clinical trials of candidate drugs for treating a specific condition or disease associated with PCDH2 activity. The present sequence is that of a PCDH2 allele-specific oligonucleotide (ASO) PCR primer of
studying the expression and function of PCDH2, in expressing PCDH2
                                                                                                                                                                                                                                                                                                                 the invention
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Sequence 15 BP; 3 A; 8 C; 1 G; 2 T; 0 U; 1 Other;

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0
Query Match 0.5%; Score 11.4; DB 1; Length 15; Best-Local Similarity 80.0%; Pred. No. 6.5e+02; Matches 12; Conservative 1; Mismatches 2; Indels
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1247 CCGACCCCATCCCCA 1261 1 CCTACCCCATGCCSA 15 à g

RESULT 1115 ABL36303

ABL36303 standard; DNA; 15 BP.

ABL36303;

(first entry) 22-APR-2002 Human lysosomal acid phosphatase 2 (ACP2) allele-specific probe 5.

Human; ss; lysosomal acid phosphatase 2; ACP2; gene; chromosome 11; lysosome-specific enzyme; orthophosphoric monoester hydrolysis; Hodgkin's disease; HD; acid phosphatase deficiency; novel polymorphic site; ACP2 haplotype; ACP2 genotype; polymorphism; transgenic animal; primer; probe; primer-extension oligonucleotide; SNP; single nucleotide polymorphism.

Homo sapiens.

WO200194362-A2

13-DEC-2001

07-JUN-2001; 2001WO-US018457.

07-JUN-2000; 2000US-0210047P.

(GENA-) GENAISSANCE PHARM INC

Tanguay DA; Messer C, Kliem SE,

WPI; 2002-154563/20

Novel genetic variants of acid phosphatase 2, lysosomal polypeptide gene useful in studying expression and function of the protein, and for screening drugs to treat diseases e.g. Hodgkin's disease.

Claim 17; Page 14; 109pp; English.

The invention comprises the human lysosomal acid phosphatase 2 (ACP2) nucleic acid and protein sequences. Specifically, the invention relates to the discovery of 22 novel polymorphic sites within the APC2 gene. The invention also comprises methods for haplotyping and genotyping the ACP2 gene in an individual. The ACP2 gene (located on chromosome 11) encodes a lysosomal-specific enzyme that cacalyses the hydrolysis of orthophosphoric monoesters to alcohol and phosphare. The ACP2 gene and protein are pharmaceutically important in the treatment of Hodgkin's protein are pharmaceutically important in the treatment ACP2 gene and polymorphisms of the invention are useful in haplotyping the ACP2 gene. ACP2 haplotyping is useful in validating ACP2 as a target (and designing

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disease and acid phosphatase deficiency). The ACP2 gene polymorphisms are useful for ACP2 gene typing, which can also be used to develop diagnostic tests and therapeutic treatments. The ACP2 protein and mucleic acids of the invention are useful in the ACP2 protein and mucleic acids of the invention are useful in the production of a transgenic animal which useful in the production of allele-specific oligonucleotides designed to genotype each of the ACP2 polymorphisms. Nucleic acids ABL36299-ABL3630 represent claimed ACP2 allele-specific probes. Nucleic acids ABL36321-acids ABL3644 represent claimed ACP2 allele-specific PCR primers. Nucleic acids ABL36321-acids ABL36364 represent claimed ACP2 allele-specific PCR primers. Nucleic
                                                                                                                                                                                                                                                                                                                                     oligonucleotides
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Sequence 15 BP; 6 A; 4 C; 3 G; 1 T; 0 U; 1 Other;

ö Gaps ; 0 0.5%; Score 11.4; DB 1; Length 15; 80.0%; Pred. No. 6.5e+02; ive 1; Mismatches 2; Indels Query Match 0.5 Best Local Similarity 80.0 Matches 12; Conservative

1296 GCCACAGAGCCTAGA 1310 1 GCAACAGRGCCTAAA 15 ઠ a

RESULT 1116 ABK81774/c

ABK81774 standard; DNA; 15 BP.

ABK81774;

(first entry) 13-AUG-2002 Human CHRMS gene polymorphism detection ASO probe #10.

Human, cholinergic receptor muscarinic 5, CHRM5, genotyping, haplotyping, single nucleotide polymorphism, SNP, allele-specific oligonucleotide; ASO; probe; ss

Homo sapiens.

WO200232924-A2.

25-APR-2002.

11-OCT-2001; 2001WO-US032022.

19-OCT-2000; 2000WO-US029071.

(GENA-) GENAISSANCE PHARM INC

Denton RR, Nandabalan K; Choi JY, Bieglecki KM, Chew A, Cl Sausker EA, Stephens JC;

WPI; 2002-435523/46.

Novel cholinergic receptor, muscarinic 5 polynucleotide useful therapeutically and in screening for candidate drug to treat diseases related to the receptor activity.

Claim 14; Page 13; 72pp; English.

The present invention relates to a new cholinergic receptor, muscarinic 5 (CHRM5) polynucleotide comprising a sequence which is a polymorphic variant for a reference sequence for the CHRM5 gene or its fragment, or a polymorphic variant of a reference sequence for a CHRM5 cDNA or its fragment. The invention is useful in drug screening assays. The molecules of the invention are useful in studying the expression and function of CHRM5, and in expressing CHRM5 protein for use in screening for candidate drugs to treat diseases related to CHRM5 activity. The methods of the invention are useful in developing diagnostic tests and therapeutic treatments. The method is also useful in the design of clinical trials of candidate drugs for treating specific condition or disease associated with CHRM5 activity and is useful in determining whether an individual

is profoundly improved over the use of each of the medicaments alone. The sequences presented in AbX75990-ABX76123 are the immunostimulatory nucleic acids disclosed in the invention

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The invention discloses a pharmaceutical composition comprising an immunostimulatory nucleic acid and either an anaemia medicament.

I thrombocytopenia medicament or a neutropenia medicament formulated in a carrier. The immunostimulatory nucleic acid can be selected from a methylated CpG nucleic acid, a T-rich nucleic acid, a poly-G nucleic acid, and/or a nucloic acid having a phosphorothicate backbone. The and/or a nucleic acid having a phosphorothicate backbone in the compositions can be used for the treatment or prevention of anaemia, thrombocytopenia and neutropenia in a subject preparing to undergo chemotherapy, radiation treatment, and has received at least one dose of chemotherapy or radiation treatment. The treatment is required due to the effect of Stress, including chemotherapy, on the formation of red blood cells, haematopoiesis. The composition provides a synergistic effect of the permits a lower dose of the medicament to be used, thus providing lower costs associated with using lower doses of the medicament, and reduced chances of inducing side effects. The efficacy of the combination
                                                                                                                                                                                                                                                           ö
has one of the haplotypes or one of the haplotype pairs. The invention is useful in a variety of diagnostic and prognostic formats and therapeutic methods. The invention is also useful in genotyping and/or haplotyping the CHRMS gene in an individual. The present nucleic acid sequence trepresents one of a collection of allele-specific oligonucleotide (ASO) probes (ABKR1765-ABK81774) that were used in the invention to detect polymorphisms in the human CHRMS gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ss; immunostimulatory nucleic acid; anaemia; thrombocytopenia; neutropenia; methylated CpG nucleic acid; T-rich nucleic acid; poly-G nucleic acid; phosphorothioate backbone; chemotherapy; radiation treatment; stress; red blood cell; haematopoiesis; symergistic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pharmaceutical composition for treatment of anemia, thrombocytopenia and neutropenia comprises an immunostimulatory nucleic acid and a medicament for the respective disease.
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                                                                                                                                                                                                           Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 80.0%; Pred. No. 6.5e+02; Matches 12; Conservative 1; Mismatches 2; Indels
                                                                                                                                                                     Sequence 15 BP; 5 A; 5 C; 2 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Schetter C, Bratzler RL, Petersen DM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Immunostimulatory nucleic acid #99.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 18; Page 9; 27pp; English.
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                                                                                                                                                                                                                                                                                                   893 TGTTGCCCCTGGTCA 907
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(BRAT/) BRATZLER R L.
(PETE/) PETERSEN D M.
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The invention relates to a method of prevention or treatment of gastric ulcer comprising administering a nucleic acid to a subject in need for treatment of gastric ulcer. A nucleic acid sample comprising oligonucleotide 2006 was administered to a mouse model by an oral route or a vehicle control. Colonisation of mice by Heliobacter pylori was assessed at time points from 1 day to 1 month after treatment. The ability of the nucleic acid to reduce H. pylori colonisation was assessed. The method is useful for preventing or treating a gastric ulcer on a subject e.g. human or non-human vertebrate animal including dog, rabbit, turkey, chicken, primate, rat and mouse. The method effectively treats or prevents gastric ulcers. The present sequence represents an immunostimulatory nucleic acid for the treatment of gastric ulcers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                             Gastric ulcer; ss; immunostimulant; equine gastric ulcer syndrome;
Heliobacter pylori.
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0.5%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 6.5e+02;
Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                        Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                               Gastric ulcer treatment immunostimulatory nucleic acid #99.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 15 BP; 3 A; 2 C; 8 G; 2 T; 0 U; 0 Other;
                                                            Sequence 15 BP; 3 A; 2 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 14; 45pp; English.
                                                                                                                                                                                                                                                                                 ACAS8753 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01 AUG-2001; 2001US-00920313
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bratzler RL, Petersen DM;
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                                                                                                                                                                                             3 ATGAGGGGGAGCT 15
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(PETE/) PETERSEN D M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-370798/35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
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                                                                                                                                                                                                                                                                                                                  ACA58753;
                                                                                                                                                                                                                                                   RESULT 1118
                                                                                                                                                                                                                                                                   ACA58753
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Page 526

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ACA09928 standard; RNA; 15 BP.
RESULT 1119
ACA09928
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ACA09928;

03-JUN-2003 (first entry)

Necrosis factor kappa B sub-unit modulating enzyme target #121.

Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme; cleaver, amberzyme; acancer; REL-A activity; breast cancer; human; lung cancer; prostate cancer; colorectal cancer; brain cancer; oesophageal cancer; stomach cancer; colorectal cancer; parcatal cancer; lead and neck cancer; bladder cancer; parcatal cancer; lead and neck cancer; cancer; melanoma; lymphona; glioma; multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosabhanide; doxontbin; fluorouracil carboplatin; edatrexate; gencitabine; radiation therapy; inflammatory disease; asthma; diabetes; rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia; gene therapy; autofumune disease; lupus; multiple sclerosis; sespis; transplant/graft rejection; reperfusion inlury; glomerulonephritis; allergic airway inflammatory bowel disease; infection; ss.

Homo sapiens

US2002177568-A1.

28-NOV-2002

23-MAY-2001; 2001US-00864785.

94US-00245466. 94US-00291932. 96US-00777916. 18-MAY-1994; 15-AUG-1994; 23-DEC-1996; 07-DEC-1992;

STIN/) STINCHCOMB D MCSW/) MCSWIGGEN J. Stinchcomb DT, Mcswiggen J, Draper KG;

WPI; 2003-340953/32.

Novel enzymatic nucleic acid molecules which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases.

Claim 3; Page 63; 72pp; English.

The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFRM), where (I) is an inozyme, zinzyme, G-Cleaver or amberzyme configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A. (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in the presence of a divalent cation, especially Mg^2+. The enzymatic and antiesne nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or multidrug resistant cancer. The method involves use of other drug therapies such as monoclonal antibodies, REL-A-specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, gencitabine or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as condition disease, lugus, multiple sclerosis, transplant(graft rejection, gene therapy applications, ischaemia/reperfusion injury

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                                                                                                                                                                                                                          Alzheimer's Disease-associated protein isoform, API, probe, SEQ ID 484.
(central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatcry bowel disease or infection. This sequence represents the substrate of a novel enzymatic nucleic acid molecule
                                                                                  Gaps
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                                                                                                                                                                                                                                           Nootropic, Neuroprotective, Alzheimer's disease; API; human,
Alzheimer's Disease-associated protein isoform; probe; ss.
                                                              Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 76.9%; Pred. No. 6.5e+02; Matches 10; Conservative 2; Mismatches 1; Indels
                                              Sequence 15 BP; 5 A; 2 C; 5 G; 0 T; 3 U; 0 Other,
                                                                                                                                                                     ACC71579 standard; DNA; 15 BP.
                                                                                                     1027 GAGCTTGAAGGAA 1039
                                                                                                                                                                                                         (first entry)
                                                                                                                3 GAGCUUGUAGGAA 15
                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                         11-JUL-2003
                                                                                                                                                                                       ACC71579;
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Durham LK, Friedman DL, Herath HMAC, Kimmel LH, Parekh RB; Potter DM, Rohlff C, Silber BM, Snyder PJ, Soares HD, Stiger TR; Sunderland PT, Townsend RR, White WF, Williams SA;

(PFIZ) PFIZER PROD INC. (OXFO-) OXFORD GLYCOSCIENCES UK LTD.

03-OCT-2002; 2002WO-US031642. 03-OCT-2001; 2001US-0326708P.

WO2003028543-A2.

10-APR-2003.

WPI; 2003-371957/35.

Screening or diagnosing of Alzheimer's disease (AD) determine the stage or severity of AD in a subject, comprises analyzing a test sample of body fluid from the subject by 2-dimensional electrophoresis.

Disclosure, Page 93; 179pp; English.

The present invention relates to methods for screening or diagnosing Alzheimer's disease (AD) to determine the stage or severity of AD in a subject, to identify subject at risk of developing AD, or to monitor the effect of therapy administered. The methods comprise analysing a test sample of body fluid by 2-dimensional electrophoresis to generate a 2-dimensional array of AD-associated features (AFS). The method alternatively comprises quantitatively detecting in a sample of body fluid from the subject, one or more AD-associated protein isoforms (APIS, ABRS§710-ABRS9184). The present sequence is a probe, used to illustrate the invention

Sequence 15 BP; 0 A; 7 C; 5 G; 3 T; 0 U; 0 Other;

Gaps ö Query Match 0.5%; Score 11.4; DB 1; Length 15; Best Local Similarity 92.3%; Pred. No. 6.5e+02; Matches 12; Conservative 0; Mismatches 1; Indels

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1098 CACCCTGGGCTTC 1110

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Cancer medicament related immunostimulatory nucleic acid #99
  ВР
ABX89900 standard; DNA; 15
                                                                             (first entry)
                                                                             30-APR-2003
                                        ABX89900;
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therapy; Immunostimulatory nucleic acid, cancer, cancer vaccine, hormone therapy bone cancer; brain cancer; central nervous system cancer; CNS cancer; connective tissue cancer; oesophageal cancer; eye cancer; Hodgixin's lymphoma; larynx cancer; oral cavity cancer; skin cancer; testicular cancer; skin cancer; skin cancer; cancer; skin cancer; cancer;

JS2002156033-A1,

24-OCT-2002.

05-MAR-2001; 2001US-00800266.

03-MAR-2000; 2000US-0187214P.

(BRAT/) BRATZLER R (PETE/) PETERSEN D

WPI; 2003-275279/27.

Bratzler RL, Petersen DM;

Treatment of a subject having, or at risk of developing cancer, involves the use of an immunostimulatory nucleic acid having a modified backbone in combination with a cancer medicament.

Disclosure, Page 7; 32pp; English.

The invention describes a method of treating (T1) a subject having cancer involving administering an immunostimulatory nucleic acid (1) having modified backbone and a cancer medicament (M1) selected from conference medicament (M1) selected from chemotherapeutic agent, cancer vaccine or hormone therapy. The poly-G mucleic acid is not conjugated to (M1) and is for the organism of the organism of the reatment of cancer (e.g. bone cancer, brain and CNS cancer, connective tissue cancer, ossophageal cancer, eye cancer, Hodgkin's lymphoma, larynx cancer, oral canter, exin cancer, Hodgkin's lymphoma, larynx cancer, oral canter, exin cancer, mid else preventing allergic responses in those receiving blood transfusions. It is also useful for the treatment of fungal bacterial, parasitic and viral infections. The combination of the immunostimulatory nucleic acids and the cancer medicament is synergistic. The combination allows for the administration of lower, sub-therapeutic doses of either compound, but with higher efficacy than would otherwise be achieved using such low doses. The immunostimulatory nucleic acids cosing regimens, improving compliance and maintenance therapy, reducing dosing regimens, improving compliance and maintenance therapy, reducing compresents an immunostimulatory nucleic acids in the method of repersoring cancer represents an immunostimulatory nucleic acid in the method of treating cancer described in the invention

Sequence 15 BP; 3 A; 2 C; 8 G; 2 T; 0 U; 0 Other;

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Gaps
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0
0.5%; Score 11.4; DB 1; Length 15; 22.3%; Pred. No. 6.5e+02; ve 0; Mismatches 1; Indels
                               12; Conservative
             Local Similarity
   Query Match
                  Best Loca
Matches
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3 ATGAGGGGGAGCT 15

g

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ACA92756 standard; DNA; 15 BP.
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(first entry) 16-JUL-2003

Immunostimulatory CpG oligonucleotide #99.

Immunostimulatory oligonucleotide; CpG; ss; vaccine; virucide; immunostimulant; cytostatic; antibacterial; fungicide; viral shedding; oil-in-water emulsion; viral infection; cancer; brain cancer; central nervous system cancer; CNS; eye cancer; connective tissue cancer; ossophagaal cancer; Hodgkin, slymphoma; larynx cancer; oral cavity cancer; skin cancer; testicular cancer; bacterial infection; meningitis; HIV infection; AIDS; fungal infection; bacterial in candidiasis.

Synthetic.

WO2003030934-A2.

17-APR-2003.

07-OCT-2002; 2002WO-EP011206.

06-OCT-2001; 2001US-0327734P.

(QIAG-) QIAGEN GMBH. (UYSA-) UNIV SASKATCHEWAN.

Babiuk LA, Hecker R;

WPI; 2003-381683/36.

New compositions comprising an immunostimulatory nucleic acid and an oil-in-water emulsion, useful for reducing viral shedding or tissue damage upon vaccination, or for inducing an immune response against infectious diseases

Claim 34; Page 34; 68pp; English.

The invention relates to a composition comprising an immunostimulatory nucleic acid (especially a CpG dinucleotide containing oligonucleotide) and an oil-in-water emulaion. Also included are reducing viral shedding in a non-human animal (by administering to a non-human animal infected with a virus or at risk of viral infection, an immunostimulatory nucleic acid and an oil-in-water emulaion), reducing tissue damage anishing the administering to a subject by an invasive coute an adjuvanted vaccine and an immunostimulatory nucleic acid to reduce tissue damage arising from the adjuvanted vaccine, where the conformation of a subject by a minumated vaccine and an immunostimulatory nucleic acid to response (by administering to a subject an oil-in-water emulsion and a conformation of a subject an oil-in-water emulsion and a coponse (by administered to a subject an oil-in-water emulsion and a coponse comprising administering to a subject an antigen specific immune response comprising administering to a subject to produce an antigen specific immune response comprising administering to a subject an antigen in a subject composition is useful for reducing viral shedding in a non-human animal composition is useful for reducing an immune response to treat or prevent infectious diseases, for reducing a dosage of antigen confusion, for inducing an immune response to treat or preventing or preventing concert, becaucing or preventing concert, becaucing or preventing cancer, of concert, bear and for treating or preventing cancer, oseophageal cancer, skin cancer, indection leading to AIDS) and fungal (e.g. candidasis) concert, skin cancer sequence is an immunostimulatory oligonucleotide

1019 AAGAGGGGGAGCT 1031

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lymphoma (ALCL), adult T cell lymphoma (ATL), angioimmunoblastic lymphadenopathy (AILD)-like T cell lymphoma, HIV associated body cavity based lymphomas, embryonal carcinomas, undifferentiated carcinomas of the thino-pharynx (e.g. Schmincke's tumour), Castleman's disease, Kaposi's Sarcoma and other T-cell or B-cell lymphomas. The present sequence is human CD30 antibody VH (heavy chain variable domain) CDR (complementarity determining region) DNA
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                                                                                                                                                                                                                                                                                                                     Human; antibody; CD30; tumour; autoimmune disease; rheumatoid arthritis; systemic lupus erythematosus; systemic sclerosis; Grave's disease; ALCL; satopic dematitis; Hashimoto's thyroiditis; chronic renal failure; ALLD; acute infectious mononucleosis; angioimmunoblastic lymphadenopathy; HIV; Hodgkin's disease; Castleman's disease; Kaposi's sarcoma; lymphoma; ATL; wedlut T call lymphoma; human immunodeficiency virus; carcinoma; therapy; Wegner's granulomatosis; analpatic large cell lymphoma; therapy; heavy chain variable domain; VH; complementarity determining region; CDR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New human monoclonal antibody that binds to human CD30, useful for treating or preventing tumor or autoimmune disease, e.g., rheumatoid
                                                                                       Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *tag= a
'product= "Human CD30 antibody VH CDR peptide"
'note= "No start and stop codon"
                                                           / Match
0.5%; Score 11.4; DB 1; Length 15;
Local Similarity 92.3%; Pred. No. 6.5e+02;
tes 12; Conservative 0; Mismatches 1; Indels
                                   Sequence 15 BP; 3 A; 2 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure, Page 118; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                              Human 2H9 CD30 antibody VH CDR1 DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Treml J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-JAN-2002; 2002US-0347649P.
19-AUG-2002; 2002US-0404427P.
06-DEC-2002; 2002US-0431684P.
                                                                                                                                                                                                               ВР
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                                                                                                                 1019 AAGAGGGGGAGCT 1031
                                                                                                                                                                                                  7382/c
AAD57382 standard; DNA; 15
                                                                                                                                            ATGAGGGGGAGCT 15
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P-PSDB; AAE38070.
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          of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003059282-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     treating or arthritis.
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                                                           Query Match
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                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Immunostimulatory, antiinflammatory, dermatological; antipsoriatic; antiulcer; gene therapy, vaccine; non-allergic inflammatory disease; psoriasis; eccema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Treating non-allergic inflammatory diseases, such as psoriasis, ecz
allergic contact dermatitis, latex dermatitis or inflammatory bowel
disease by administering an immunostimulatory nucleic acid.
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0.5%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 6.5e+02;
Matches 12; Conservative 0; Mismatches 1; Indels
                                                          0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; ive 0; Mismatches 1; Indels
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Sequence 15 BP; 3 A; 3 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Immunostimulatory nucleic acid #885.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure, Page 33; 229pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                            ACH03250 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-MAR-2001; 2001US-0279642P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-MAR-2002; 2002US-00112653.
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                                                                                                                                                                                              795 CTCCTGTAGTAAC 807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                              Query Match
Best Local Similarity 92.3
Matches 12; Conservative
                                                                                                                                                                                                                                                      14 CTCCAGTAGTAAC 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-521815/49.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (KRIE/) KRIEG A M. (BERG/) BERG D J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-MAR-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACH03250;
                                                                                                                                                                                                                                                                                                                                                                 RESULT 1124
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HNF-lalpha;

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The invention relates to an improved primer discrimination method in allele-specific primer extension (ASPE). The invention also relates to primers useful in ASPE methods, which has in 3' portion an allelespecific nucleotide complementary to allelic variation nucleotide of target nucleic acid and an artificial mismatch nucleotide. The primers are useful for increasing discrimination between primers in ASPE. The ASPE method is useful in detecting a single point mutation as well as insertion and deletion variations. The present sequence is a probe(primer) used to detect variations in human HNP-1 alpha (hepatocyte nuclear factor-1) mutant exon 2. This sequence is used to illustrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel primer for use in allele-specific primer extension, has in 3' portion an allele-specific nucleotide complementary to allelic variation nucleotide of target nucleic acid and an artificial mismatch nucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ds, allergy, asthma, poly-G nucleic acid; aerosol formulation; hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; lve 0; Mismatches 1; Indels
                                                      Allele-specific primer extension; ASPE; detection; human; hepatocyte nuclear factor-1; probe; ss.
                  Human HNF-1 alpha mutant exon 2 specific probe #9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 15 BP; 3 A; 2 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Immunostimulatory nucleic acid #827.
                                                                                                                                                                                                                                                                                                                                      (SMSU ) SAMSUNG ELECTRONICS CO LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Page 6; 28pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADB37213 standard; DNA; 15 BP
                                                                                                                                                                                                                                                                                             23-NOV-2001; 2001KR-00073291.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02-FEB-2001; 2001US-00776479.
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                                                                                                                                                                                                                                                    16-NOV-2002; 2002WO-KR002143.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      92.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              method of the invention
                                                                                                                                                                                                                                                                                                                                                                                 Huh N;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
ses 12; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US2003087848-A1.
                                                                                                                                                                   WO2003044228-A1.
                                                                                                                                                                                                                                                                                                                                                                                 Kim K,
                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-DEC-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADB37213;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                 Ché J,
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention provides single-stranded (ss) DNA molecules that are generated intracellularly and are active in mediated triplex-dependent and/or recombinagenic chromosomal events within the cells and/or recombinagenic chromosomal events within the cells mid-or the cellular compartments. These oligonucleotides can be produced within the cells by providing a vector or plasmid which generates not only the oligonucleotides in the cells, but also a fusion protein which is both a reverse transcriptase and a restriction enzyme. The ssDNA may be produced directly, or initially as a stem-loop structure, which is then cleaved to yield ssDNA. The triplex-forming oligonucleotide can be studying DNA repair, for gene therapy, for generating new strains of studying DNA repair, for gene therapy, for generating new strains of transmuted animals or plants, and in functional genomics. The present sequence is that of a PCR primer to sa triplex-forming oligonucleotide Ad34 (see ACPOSOS) or its reverse, and was used to detect ssDNA in mouse FL-10 cells following vector transfection
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Inducing a specific change in a target chromosomal nucleic acid molecule by introducing (into a cell) a nucleotide molecule encoding a reverse transcriptase or a RNA to be reverse transcribed into single stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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Pred. No. 6.5e+02;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15 BP; 1 A; 10 C; 2 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                  Iriplex; gene therapy; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sxample 1; Page 22; 39pp; English.
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                                                                                                                            BP.
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                                                                                                                                                                                                                                                         PCR primer to AG34 or rev34
                                                                                                                            ACF05803 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                      15
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ATGAGGGGGAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-533013/50.
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Best Local Simil
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26-JUN-2003,

Glazer PM;

AAL60774;

AAL60774/C ID AAL6C XX AC AAL6C XX DT 03-SE

RESULT 1126

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Synthetic.

ACF05803;

RESULT

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Gaps

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to genotyping/haplotyping the cholinergic receptor, nicotinic, beta-polypeptide 2 (neuronal) (CHRNB2) gene of an individual,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Genotyping cholinergic receptor, nicotinic, beta-polypeptide 2 gene of an individual involves determining for two copies of the gene, the identity of nucleotide pair at polymorphic sites selected from PS1-24.
                                                                                                                                                                                                            The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represents an immunostimulatory nucleic acid of the invention.
                                                                                                                                  Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human CHRNB2 allele specific oligonucleotide (ASO) probe #13.
                                                                                                                                                                                                                                                                                                                                                          0.5%; Score 11.4; DB 1; Length 15; 92.3%; Pred. No. 6.5e+02; tive 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                              Sequence 15 BP; 3 A; 2 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               allele specific oligonucleotide; ASO; probe.
                                                                        Fouron Y;
                                                                                                                                                                                     Disclosure, Page 18; 221pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AASS7216 standard; DNA; 15 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           03-APR-2000; 2000US-0194155P.
13-JUL-2000; 2000US-0217952P.
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                                                                                                                                                                                                                                                                                                                                                                                                                            1019 AAGAGGGGGAGCT 1031
                                                                          Petersen DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGAGGGGGAGCT 15
                                                                                                                                                                                                                                                                                                                                                                                              12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-626374/72
           BRATZLER R I
PETERSEN D N
FOURON Y.
                                                                                                       WPI; 2003-657977/62
                                                                                                                                                                                                                                                                                                                                                                               Similarity
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                                                                          Bratzler RL,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAS57216;
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Best Local 9
                            (PETE/)
(FOUR/)
             BRAT/)
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compitating uretimining to the two cupres of the individual, the identity of the nucleotide pair at one or more the individual, the identity of the nucleotide pair at one or more polymorphic sites selected from FS1-24. Also include are oligomucleotides corrections the method and the nucleotide sequence of the polymorphic variants of CHRNB2. The method is useful for detecting novel CHRNB2.

Conjumorphisms and for determining if an individual has a haplotype or polymorphisms and for determining if an individual has a haplotype or candidate agent for treating a specific condition or disease predicted to be associated with CHRNB2 activity (e.g. a memory disorder, Alzheimer's candidate agent for treating disorder, schizophrenia, attention of disease, pellepsy, alearning disorder, schizophrenia, attention of disease, pellepsy (ADNFLE)), and in the design of clinical trials of frontal lobe epilepsy (ADNFLE)), and in the design of clinical trials of conditions or disease predicted to compounds targeting CHRNB2 octivity. The method is useful to screen for compounds targeting CHRNB2 activity. The method is useful to screen for compounds the expression and function of CHRNB2 and in expressing in brudying the expression and function of CHRNB2, and in expressing cHRNB2 protein for use in screening for candidate drugs to treat disease callated to CHRNB2 activity and are useful for therapeutic purposes. The CHRNB2 gene is located on chromosome 1q21. The present sequence is an expensive invariant procession and function for performing the method of the invariant collection of the method of the condition of the condition of the method of the condition of th
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antisense therapy, antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; linsulin-like Growth Factor. I receptor; IGF-1; pityriasis; IGF binding protein; IGFB-2; IGFBP3; inflammation; psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; kertosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperaneovascular condition; hyperplasia; kidney disease; neobascular condition; hyperplasia; kidney disease;
two copies of the CHRNB2 gene present in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
0.5%; Score 11.4; DB 1; Length 15;
Best Local Similarity 80.0%; Pred. No. 6.5e+02;
Matches 12; Conservative 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15 BP; 3 A; 8 C; 3 G; 0 T; 0 U; 1 Other;
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     comprising determining for the
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pseudonucleotides which contain anthraquinone. These oligomers were

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an cantiferate oligonucleotide, (for Insulin-like Growth Factor [106]-1 creceptor, IEF binding protein [IGFB]-2 or IGFBF3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide of the present invention (see AAF45151 and AAF45153-Crichthyosis, pityriasis, ruba, pilaris, serborthoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hypernecovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperplasia
                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified oligo:nucleotide(s) conjugates to anthraquinone - useful as anti-sense agents for treating and diagnosing diseases.
                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligomer; specificity; pseudonucleotide; anthraquinone; in vitro; in vivo; hybridisation; antisense therapy; stability; diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag= b
/note= "Pseudonucleotide containing anthraquinone"
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note= "Pseudonucleotide containing anthraquinone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The sequences given in AAQ42793-802 are oligomers which contain
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                                                                                                                                                                                                                                                                                              Sequence 15 BP; 3 A; 5 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pseudonucleotide containing oligomer 6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
               Example 8; Page 84; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure, Table 1; 6pp; English
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                                                                                                                                                                                                                                                                                                                                                                                            1658 CTGCGAGATCGCC 1670
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12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1993-181844/22.
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The Ligase Chain Reaction has been improved to increase the "flexibility" or "dynamic range" of each probe set used in the detection of small mutations (single base deletions, insertions and changes, as well as multiple mutations where the size of the mutation is less than about 15% of the average probe length). Previously the determination of the genetic constituency of an individual has been time consuming. The invention nucleic acid) under hybridising conditions that have been modified - 1. the concentration of monovalent cation (Na+, K+, or NR3H+; R = H or lower alkyl) is 100-200mM; 2. a "hot start" (temp. range 50-95 degree C) may be
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      small
     tested for stability in vitro and in vivo, and specificity of hybridisation to complementary DNA and RNA. Hybridisation was increased hybridisation to complement in almost all cases. The oligomers which contain two anthraquinone modifications generally show cumulatively enhanced stability as compared to those with only one such residue. These oligomers are useful for therapeutic, esp. antisense therapy, diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Improved ligase chain reaction with high monovalent cation concns., mismatched probes and/or high initial mixing temps - used to detect smutations in known DNA sequences, pref. for detecting cystic fibrosis
                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cystic Fibrosis; CF nonsense mutation; improved method; diagnosis; known mutation; Ligase chain reaction; G542X; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ligase Chain Reaction - specific probe for CF mutation detection.
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                                                                                                                                                                   0.5%; Score 11.4; DB 1; Length 16;
llarity 92.3%; Pred. No. 7.8e+02;
Conservative 0; Mismatches 1; Indels
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                                                                                                                                      Sequence 16 BP; 0 A; 7 C; 0 G; 7 T; 0 U; 2 Other;
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/mod_base= other
/note= "5'-biotin-T"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 32; Page 14; 64pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hsieh W,
                                                                                                                                                                                                                                                                                                                                                      AAQ72441 standard; DNA; 16 BP.
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                                                                                                                                                                                                                                      1015 GAAAAAGAGGGGG 1027
                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                          research applications
                                                                                                                                                                                                                                                                     14 GAAAAAGAGAGG 2
                                                                                                                                                                                                                                                                                                                                                                                                                     (revised)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gordon J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1994-135607/16.
                                                                                                                                                                          Query Match
Best Local Similarity
Matches 12, Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Key
modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-SEP-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO9408047-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                   21-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                      AAQ72441;
                                                                                                                                                                                                                                                                                                                        RESULT 1131
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used; and 3. one of the downstream probes has a mismatch within 5 bases from the 5' end so it is not complementary to the target sequence (The complementary probe is also mismatched). These may be used either on their own or in conjunction. AAQ72439 and AAQ72440 are used to detect the G542X mutation in cystic fibrosis. The remaining probes are selected from applicable to other disease related mutations. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This sequence shows an intron-exon boundary of the human haemopoietin receptor NR2 gene. Genomic libraries were screened to obtain genomic clones of the NR2 locus. These clones were characterized by mapping with partial endonuclease digestion, and specific probes were used to determine which fragments contained exon sequences. Intron/exon junction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Haemopoietin receptor; new receptor 2; NR2; leptin; human; autoximune disease; nervous system; cerebral palsy; leptons disease; nervous system; cerebral palsy; motor neurone disease; Parkinson's disease; Huntington's disease; Alzheimer's disease; multiple sclerosis; peripheral neuropathy; heavy metal; alcohol; toxicity; kidneyl fallure; infectious disease; herpes; rubella; measles; chicken pox; HIV; HILV-1; therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human haemopoietin receptor NR2, and corresponding DNA - used e.g. for treatment of auto-immune diseases.
                                                                                                                                                                                                                         0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Willson T, Nicola NA, Gainsford T, Alexander WS;
                                                                                                                                                                                       0.5%; Score 11.4; DB 1; Length 16; 92.3%; Pred. No. 7.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human haemopoietin receptor NR2 gene intron-exon junction.
                                                                                                                                                                                                                         1; Indels
                                                                                                                                                      Sequence 16 BP; 2 A; 7 C; 1 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1. .10

/*tag= a

//note= "3' end of 1.4 kb intron"

11. .16

/*tag= b

/note= "5' end of exon"
                                                                                                                                                                                                                        0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                            AAT64483 standard; DNA; 16 BP.
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                                                                                                                                                                                                                                                        1125 TICCACCTICACC 1137
                                                                                                                                                                                 Query Match
Best Local Similarity 92.3#
Matches 12, Conservative
                                                                                                                                                                                                                                                                                         4 TICCACCTICICC 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-SEP-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens,
                                                                                                                                                                                                                                                                                                                                                                                                                                              30-0CT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-APR-1997.
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sequences (see AAT64459-86) were determined by sequencing across introni-exon boundaries and confirmed by PCR. MRZ (see also AAM44841) and genetic sequences encoding it (see also AAT6442) can be used in the development of (ant)agonists, therapeutics and diagnostic reagents based
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Haehopoietin receptor; new receptor 2; NR2; leptin; human; autoimmune disease; nervous system; cerebral palsy; autoimmune disease; nervous system; cerebral palsy; neuronal tumour; motor neurone disease; Parkinson's disease; Huntington's disease; Alzheimer's disease; multiple solerosis; peripheral neuropathy; heavy metal; alcohol; toxicity, kidneyl failure; infectious disease; herpes; rubella; measles; chicken pox; HIV; HTLV-1; therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human haemopoietin receptor NR2, and corresponding DNA - used e.g. for
                                                                                                                                                                       Gaps
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                                                                                                                                 Match 0.5%; Score 11.4; DB 1; Length 16; Local Similarity 92.3%; Pred. No. 7.8e+02; es 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                    Human haemopoietin receptor NR2 gene intron-exon junction.
                                                                                                   Sequence 16 BP; 4 A; 2 C; 2 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  end of intron"
                                                                 on ligand interaction with the receptor
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/note= "5' end of exon"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Willson T, Nicola NA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     treatment of auto-immune diseases.
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                                                                                                                                                                                                                                                                                                                             AAT64472 standard; DNA; 16 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
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                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                         RESULT 1133
AAT64472/c
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Matches
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Human; alpha-7 nicotinic receptor; neuronal; hybridisation; probe; alpha-7 neuronal nicotinic acetylcholine receptor; schizophrenia; small cell lung carcinoma; breast cancer; nicotine-dependent illness; epilepsy; juvenile mycolonic epilepsy; Prader-Willi syndrome; Angelman's syndrome; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human alpha-7 neuronal nicotinic acetylcholine receptor and related polynucleotides.
                                              Human alpha-7 hicotinic receptor PCR primer SEQ ID NO:48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 15; Page 74; 104pp; English.
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AAA86561 standard; DNA; 16 BP.
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                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                      Leonard S, Freedman R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-288306/24
                                                                                                                                                                                                                                                                                                                                                                     (LEON/) LEONARD S.
(FREE/) FREEDMAN R.
                                                                                                                                                                                                                                                                                                     15-OCT-1998;
                                                                                                                                                                                                                                                                                                                                     23-OCT-1997;
                                                                                                                                                                                  Synthetic.
Homo sapiens
                 15-JUL-1999
                                                                                                                                                                                                                                   WO9920757-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAVI1892-VI1900 are PCR primers used in the identification and isolation of a salt-inducible promoter (SIP) derived from the lactic acid bacterium Lactococcus lactis. Using the SIP, salt can be used as a food-grade inducer in food fermentation processes, e.g. in the production of cheese, dressings, water-containing spreads, sausages, or sour dough
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Salt-inducible promoter - derived from lactic acid bacteria, used for the production of polypeptides in food.
                                                                                                                                                                                                                                                                                                                                                                                                       Salt-inducible promoter; lactic acid; food industry; food-grade inducer; fermentation processes; cheese production; PCR primer; ss.
development of (ant)agonists, therapeutics and diagnostic reagents based on ligand interaction with the receptor
                                                                                                                      Gaps
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                                                                                Query Match 0.5%; Score 11.4; DB 1; Length 16; Best Local Similarity 92.3%; Pred. No. 7.8e+02; Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 16 BP; 4 A; 5 C; 3 G; 4 T; 0 U; 0 Other;
                                                  Sequence 16 BP; 2 A; 4 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ledeboer AM;
                                                                                                                                                                                                                                                                                                                                                                         L. lactis NS3 locus PCR primer NS3-9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 16; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sanders JW, Kok J, Venema G,
                                                                                                                                                                                                                                                                       AAV11898 standard; DNA; 16 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              96EP-00202444.
97EP-00200744.
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                                                                                                                                                    1009 ACACCTGAAAAG 1021
                                                                                                                                                                                                                                                                                                                                         (first entry)
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                                                                                                                                                                                 14 ACACCTGGAAAAG 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
Lactococcus lactis.
                                                                                                                                                                                                                                                                                                                                         13-AUG-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-SEP-1996;
13-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-MAR-1998.
                                                                                                                                                                                                                                                                                                         AAV11898;
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                                                                                                                                                                                                                                   RESULT 1134
AAV11898
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The present invention describes an isolated nucleotide sequence (I) encoding at least a portion of the human alpha-7 neuronal nicotinic encoding at least a portion of the human alpha-7 neuronal nicotinic acetylcholine receptor (alpha7-hnAchR). Also described are: (I) a peptide encoded by (I); (2) a vector comprising (I); (3) a host cell transformed with a vector of (2); (4) a polymucleotide comprising at least 15 nucleotides which hybridises under stringent conditions to at least a portion of (I); (5) a method for detection of a polymucleotide encoding alpha 7-hnAchR. The primers and probes from the present invention can be used on brain tissue and probes from the present invention can be used on brain tissue and blood samples of humans suspected of suffering from schizophrenia, small cell lung carcinoma, breast cancer and nicotine-dependent illness. This is particularly useful studied/diagnosed are epilepsy (e.g. juvenile myoclonic epilepsy) and prader-Willi and Angelman's syndromes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 16 BP; 6 A; 5 C; 3 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCNA hairpin ribozyme recognition site #9.
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AAX56201 standard; DNA; 16 BP.

AAX56201 RESULT 1135
AAX56201
ID AAX56201
XX
AC AAX56201

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The present invention describes a method for treating a proliferative skin or eye disease and scarring. The method involves administering a cibozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle dependent kinase, growth factor or a reductase, or administering a nucleic acid molecule (II) comprising a promoter operably linked to a concleic acid segment encoding (I). (I) can have antipsoriatic, dermatological, cytostatic, antiseborrheic, antisiabetic, and cophhalmological, vulnerary, keratolytic and vincide activities, and cleaves RNA encoding cytokine involved in inflammation. (I) can be used in gene therapy. (I) and (II) are useful for treating proliferative skin diseases such as psoriasis atopic dermatitis, actinic keratosis, conclusion be used for treating proliferative eye diseases such as diabetic also be used for treating proliferative eye diseases such as diabetic cretinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of prematurity and retinal detachment, and for treating and preventing scarring such as keloid, adhesion and hypertrophic or hypertrophic burn see a samplification of the present invention
                                                                                                                                                                                      Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent kinases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KRAB domain, hyperplasia, thyroid, tumor; zinc finger motif; primer; cytostatic, antithyroid; gene therapy; chromosome 19; 19q13; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human thyroid malfunction-associated protein RITA PCR primer #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 0.5%; Score 11.4; DB 1; Length 16; Best Local Similarity 92.3%; Pred. No. 7.8e+02; Matches 12; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 16 BP; 3 A; 2 C; 2 G; 9 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                            Example 1; Page 20; 408pp; English.
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99US-0161532P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16 rrcraadagacaa 4
                                                                                             Tritz R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-290723/30
                                                                                                                                          WPI; 2001-300427/31.
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                                              (IMMO-) IMMOSOL INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-OCT-1999;
26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-APR-2001.
                                                                                             Robbins JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAF88161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 1138
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human, ribozyme therapy, hairpin ribozyme; hammerhead ribozyme; recognition site; target, ribozyme binding site, eye disease; vulnerary; proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation, cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keracolytic; gene therapy; viral wart; tappic dermatitis; actinic keratosis; squamous cell carcinoma; basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar; sickle cell retinopathy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
Representative examples of ribozyme recognition sites are given in Representative examples of ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is efficient in
                                                                                                                                                                                                                                                                                                                                                                                                               New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1, PCNA and Cyclin B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCNA hairpin/hammerhead ribozyme recognition site SEQ ID NO:4151.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.5%; Score 11.4; DB 1; Length 16; 92.3%; Pred. No. 7.8e+02; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 16 BP; 3 A; 2 C; 2 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                      Robbins JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Page 16; 109pp; English
                                                                                                                                                                                                                                                                                                                      Barber JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAH61727 standard; DNA; 16 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-OCT-2000; 2000WO-US029500
                                                                                                                                                                         99WO-US028772
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          restenosis treatment
                                                                                                                                                                                                                                                                                                                      Fritz R, Welch PJ,
                                                                                                                                                                                                                                                                       (IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                  VPI; 2000-412314/35.
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                                                                      40200032765-A2
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Synthetic.
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                                                                                                                                                                         06-DEC-1999;
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Query Match Local

Matches

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Mammalia

AAH61727;

RESULT 1137

AAH61727

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Gaps

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Seguence 16 BP; 7 A; 1 C; 2 G; 6 T; 0 U; 0 Other;

invention

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The invention relates to a novel isolated molecule comprising bases 2-8 or 13-16 of 2 16 base pair sequences, or comprising a 1731 base pair sequence, all given in the specification or at least 95 % identity with the 1731 bp sequence. The mucleic acid molecule is useful in regulating apoptosis in cells and in drug screening. The method is useful in that can facilitating the induction of apoptosis in cells, in identifying an agent that can facilitate the induction of apoptosis in cells, and in inhibiting the growth of a cancer. This polymuclectide sequence represents a ribozyme binding substrate sequence relating to the
                                                                                                   This invention describes a novel nucleic acid (NI) encoding a polypeptide which comprises a KRAB-domain and/or at least one zinc finger motif. The products of the invention have cytostatic and antithyroid activity and can be used in gene therapy. Nucleic acids, polypeptides, and antibodies of the invention may be used in the diagnosis and/or the therapy of the malfunction of the thyroid and/or hyperlasais of the thyroid and/or thyroid and/or they also be used in the production of medicaments. (NI) can also be used to diagnose thyroid tumors which are located on thromosome 19 at band 19413. This sequence represents a PCR primer used in the isolation of the thyroid malfunction-associated protein, RITA which is described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated nucleic acid molecule useful for regulating apoptosis induction in cells, for inhibiting the growth of cancer in subjects, and for drug screening.
                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
          New nucleic acid useful for the diagnosis and treatment of thyroid disorders, e.g. tumors.
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                                                                                                                                                                                                                                                                                                                                                                                                                    1; Indels
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                                                                                                                                                                                                                                                                                                                                           Sequence 16 BP; 2 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ribozyme substrate binding sequence SEQ ID No 63.
                                                                                                                                                                                                                                                                                                                                                                             0.5%; Score 11.4; DB 1;
92.3%; Pred. No. 7.8e+02;
rative 0; Mismatches 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 3; Page 41; 153pp; English.
                                                                       Example 8; Page 29; 59pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tritz R, Keily B, Habita C,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              L4-MAY-2001; 2001US-0290927P.
                                                                                                                                                                                                                                                                                                                                                         Cuery Match
Best Local Similarity 92.3",
Best Local 2; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABT33712 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                        817 AGCCTGGAGTGCA 829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated nucleic acid molecule useful for regulating apoptosis induction in cells, for inhibiting the growth of cancer in subjects, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                  Gaps
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                                                                                                                                                                                                                                                                                                      Cytostatic, gene therapy, apoptosis, cancer growth inhibition, drug screening, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 0.5%; Score 11.4; DB 1; Length 16; Best Local Similarity 92.3%; Pred. No. 7.8e+02; Matches 12; Conservative 0; Mismatches 1; Indels
Score 11.4; DB 1; Length 16; Pred. No. 7.8e+02;
                                1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Barber J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 16 BP; 4 A; 4 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                         Ribozyme substrate binding sequence SEQ ID No 62.
                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Robbins J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 3; Page 41; 153pp; English.
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                                                                                                                                                                           ABT33711 standard; DNA; 16 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-MAY-2002; 2002WO-US015198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-MAY-2001; 2001US-0290927P.
 Query Match
Best Local Similarity 92.3%;
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1275 GTGGGAGGACAGC 1287
                                                              772 TITCTAAGAGAAA 784
                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 GTGGGAGAACAGC 16
                                                                                             1 rrrcraaadaaa 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-129308/12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for drug screening
                                                                                                                                                                                                                                                                                                                                                                                      WO200292840-A2
                                                                                                                                                                                                                                                                                                                                                         Unidentified.
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ADE14063/c
ID ADE14063
                                                                                                                                              RESULT 1140
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BP

16

(first entry)

(first entry)

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Optineurin promoter motif, repeat element or regulatory region #172
                                                                              06-MAR-2002; 2002US-00091281.
                                                                      16-MAR-2002; 2002US-00091281.
                                                                                                                                                                                                                                                   outative regulatory region.
                                                                                                       Raymond V, Morissette J,
                                                                                               (MORI/) MORISSETTE J.
                                                                                                               WPI; 2003-864168/80.
                                                                                      SI E.
RAYMOND V.
                                                     JS2003190617-A1
                                              Homo sapiens
            29-JAN-2004
                                                              39-OCT-2003.
                                                                                                                                    disorders.
                                                                                                                                                                                                                                                                    Query Match
    ADE14063;
                                                                                      (SIEE/)
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The invention relates to an isolated nucleic acid (NI) comprising at least 20 but not more than 1500 consecutive nucleotides of the optineurin promoter properating as ADE1380. Also included are the optineurin promoter operably linked to a heterologous nucleic acid, a nucleic acid capable of detecting a single nucleotide polymorphism (SNP) in the optineurin promoter or promoter, a host cell comprising the promoter operably linked to a promoter operably linked to a promoter reach of dagnosing or prognosing glaucoma in a sample containing to promoter operably linked to a promoter reach of the optineurin gene, associated with a glaucoma phenotype), detecting a SNP sequence variation in a sample containing DNA, detecting the presence of an optineurin promoter sequence variation in a sample containing DNA, detecting the presence or increased a sample containing DNA determining the presence or increased containing in loss of visual field in a patient for the severity or progression of glaucoma in a patient, comprising providing an eaction primers that direct amplification of a selected nucleic acid region containing the variation within the optineurin optineurin promoter and and plancaming human genomic DNA, providing a nucleic acid region containing human genomic DNA, providing a nucleic acid ceptable of detecting a SNP ploated within an optineurin promoter, and catched the presence of an optineurin promoter, and catched within an optineurin promoter, and
                                                                                                                                                                                                                                                                      Human, optineurin; ds; ophthalmological; single mucleotide polymorphism; SNP; glaucoma; progressive ocular hypertensive disorder; glaucoma related disorder; motif; repeat element; regulatory region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New nucleic acid sequences of the optineurin gene are useful to detect polymorphisms particularly single nucleotide polymorphisms in the optineurin promoter to diagnose, prognose and treat glaucoma and related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    detecting the polymorphism). The invention is used to diagnose and prognose glaucoma and also to treat glaucoma related disorders. The present sequence is an optineurin promoter motif, repeat element or
                                                                                                                                                                                                          Optineurin promoter motif, repeat element or regulatory region #376.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 11.4; DB 1; Length 16; 92.3%; Pred. No. 7.88+02; ive 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 11; SEQ ID NO 378; 159pp; English
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Best Local Similarity 92.3;
Matches 12; Conservative
Raymond V, Morissette J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to an isolated nucleic acid (NI) comprising at least 20 but not more than 1500 consecutive nucleotides of the optineurin promoter appearing as ADB18890. Also included are the optineurin promoter operably linked to a heterologous nucleic acid, a nucleic acid capable of detecting a single nucleotide polymorphism (SNP) in the optineurin promoter. Spromoter operably linked to a heterologous nucleic acid, a nucleic acid capable of detecting a single nucleotide polymorphism (SNP) in the optineurin promoter region of the optineurin gene, associated with a sample obtained from a cell or bodily fluid (comprising detecting a polymorphism of the optineurin gene, associated with a glaucoma phenotype), detecting a SNP sequence variation in a sample containing DNA, determining the presence or increased susceptibility to glaucoma or to a progressive ocular hypertenaive concenting in loss of visual field in a patient (or the severity or progression of glaucoma in a patient, comprising providing a sample containing the variation within the optineurin containing the variation within the optineurin containing a sample containing the variation within the optineurin promoter and amplifying the DNA) and detecting a polymorphism (comprising capable of detecting a SNP) located within an optineurin providing a nucleic acid capable of detecting the polymorphism). The invention is used to diagnose and progression or progression containing human genomic DNA, providing a polymorphism. Or present sequence is an optineurin promoter motif, repeat element or provider or progression or progression or the polymorphism or present sequence is an optineurin promoter motif, repeat element or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
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                                                                                                                                                                                                                              Human, optineurin, ds, ophthalmological, single nucleotide polymorphism,
SNP; glaucoma; progressive ocular hypertensive disorder;
glaucoma related disorder; motif, repeat element; regulatory region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  claim 11; SEQ ID NO 174; 159pp; English.
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Gaps

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1057 GCCCCAAACCCAA 1069

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CCCCAGATTGGGA

16

Best Loca Matches

RESULT 1142

GCCCCAGACCCAA 3

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The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down cegniates expression of a neurite growth inhibitor gene (NGGO). The cegniates expression of a neurite growth inhibitor gene (NGGO). The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a possessing an NCH motif), a G-cleaver (Cleaving RNA with a NRA molecule or an amberzyme (cleaving RNA with an NGH worlf), a zinzyme (cleaving RNA with an NGH worlf), a zinzyme (cleaving RNA with an NGH worlf). The CD20-targetting nucleic acid is used to cleave RNA or CC for on the presence of advalent cation that is preferably Mg<sup>2</sup>+.

C Furthermore, it may be contacted with a cell to reduce CD20 activity of the cell and treat a patient having a condition associated with the level of CD20. The treatment may further comprise the use of one or more cherapies. In particular, the CD20 targetting nucleic acid may be used to treat lymphoma leukaemia, B-cell lymphoma, low-grade or follicular non-Hodgxin; s lymphoma (NHL), bulky low-grade or follicular NHL, mantle-cell lymphoma (MCL), immunocytoma (IMC), small B-cell lymphoma, contacted acid inflammatory arthropathy. The NGGO ene in the character of a divalent cation that is preferably Mg<sup>2</sup>2+. Furthermore, the
                                                                                                                                                                                                                               cerebroprotective; nootropic, neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme; DNAzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma ribozyme; non-Bodgkin's lymphoma; NHL; lymphocytic leukaemia; B-cell lymphoma; non-Bodgkin's lymphoma; NHL; lymphocytic leukaemia; MCL; immunocytoma; IMC; imwune thrombocytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy:induced neuropathy; amyotrophic lateral sclerosis; Parkinson's disease; ataxia; Huntington's disease; creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
                                                                                                                                                                                                             Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, central nervous system injury.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chowrira BM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 88; Page 131; 200pp; English.
                                         ABK02378 standard; RNA; 17 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-FEB-2001; 2001WO-US004273.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-FEB-2000, 2000US-0181797P.
28-FEB-2000, 2000US-0185516P.
06-MAR-2000, 2000US-0187128P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RIBO-) RIBOZYME PHARM INC.
BLAT/) BLATT L.
MCSW/) MCSWIGGEN J.
                                                                                                                            (first entry)
                                                                                                                                                                      Human NOGO Amberzyme #50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CHOW/) CHOWRIRA B M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-607195/69.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200159103-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sapiens.
                                                                                                                            12-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Blatt L,
                                                                                   ABK02378;
RESULT 1143
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nucleic acid may be contacted with a cell to reduce NOGO activity of the cell and treat a patient having a condition associated with the level of the treatment may further comprise the use of one or more therepies. In particular, the NOGO-tergetting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CNA, grarkle), Alzelmer, disease, dementia, multiple sclerosis (MS), chemocherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), parkinson's disease, ataxia, Huntington's disease, Creuzzfeldt-Jakob disease, muscular dystrophy, and/or other neurodegenerative disease states which respond to the modellation of NOGO expression. The present sequence is an amberzyme molecule of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptide of splice variant of cyclic adenosine monophosphate phosphodiesterase type 7 and polynucleotides, useful as vaccines for inducing immune response against diseases e.g. cardiovascular diseases
                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cyclic adenosine monophosphate; cAMP; cAMP phosphodiesterase type 7; PDE7a3; splice variant; transgenic; PCR; cardiant; antiinflammatory; antiallergic; antiasthmatic; antiinfertility; vaccine; primer; ss.
                                                                                                                                                                                                                                                                                                      ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human PDE7a3 splice variant DNA amplifying primer PDE7a3For.
                                                                                                                                                                                                                                                              0.5%; Score 11.4; DB 1; Length 17; 69.2%; Pred. No. 9.2e+02; Live 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= a
/note= "this nucleotide is indicated as G
                                                                                                                                                                                                                              Sequence 17 BP; 3 A; 2 C; 9 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example, Page 27, 40pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABLS8392 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-APR-2000; 2000EP-00109267.
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                                                                                                                                                                                                                                                                                                                                             1506 GCTGGAGCTGCTG 1518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                  Ouery Match
Best Local Similarity 69.22
Best Local 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                   ||:|||| :||:|
GCUGGAGGUGCUG 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-034516/04.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-NOV-2001.
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Assessing cardiovascular status in humans by polymorphic analysis - of genes for angiotensin converting enzyme, angiotensinogen and angiotensin II_receptor, used to diagnose predisposition to disease and to predict
                                                                                                                                                PCR primer; human; ACE; angiotensin converting enzyme; angiotensinogen; cardiovascular status; AGT; ATI; type 1 angiotensin II receptor; stroke; polymorphic pattern; blood presenue; electrocardiographic profile; cardiac condition diagnosis; myccardial infarction; atherosclerosis; hypertension; cardiovascular disease; ss.
                                                                                                                       Primer ACE/108RB for human ACE gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 27; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Norberg LT, Andersson MK,
                 AAV08583 standard; DNA; 16
                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (EURO-) EURONA MEDICAL AB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1998-568361/48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     II receptor, used
effect of therapy
                                                                                                                                                                                                                                                                                         Homo sapiens,
                                                                                                                                                                                                                                                                                                                                                                                               01-APR-1998;
                                                                                                                                                                                                                                                                                                                          WO9845477-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                  04-APR-1997;
                                                                                        15-FEB-1999
                                                                                                                                                                                                                                                                                                                                                            15-OCT-1998.
                                                                                                                                                                                                                                                                       Synthetic.
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Best Local S
                                                       AAV08583;
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gene is replaced by human equivalent within the genome of the animal), useful in drug discovery process, for target validation. The PDE7a3 splice variant polypeptides and polymuclocitdes are useful as vaccines for inducing an immunological response in a mammal. Sequences ABL58392-93 represent PCR primers used to verify the existence of the novel PDE7a3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to an isolated DNA molecule which encodes a polypeptide capable of binding to an intracellular domain of a p55 tumous necrotic factor (TNF) receptor. The DNA molecule is useful for preparing a composition for treating tumour, rhematoid arthritis or inflammatory diseases. The invention is useful in gene therapy. The present sequence is a PCR primer used in the construction of soluble dimeric TNF receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense PCR primer, EC55 to construct soluble dimeric TNF receptor
                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New DNA molecule encoding a polypeptide capable of binding to an untracellular domain of a p55 tumor necrotic factor (TNF) receptor, useful for preparing a composition for treating tumor, rheumatoid arthritis or inflammatory diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Intracellular domain, IC, p55 tumour necrotic factor receptor, TNF;
tumour, rheumatoid arthritis, inflammatory disease, gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
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                                                                                                                                              Length 20;
                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 28 BP; 3 A; 9 C; 9 G; 7 T; 0 U; 0 Other;
                                                                                                           Sequence 20 BP; 4 A; 8 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                              0.5%; Score 11.4; DB 1; 92.3%; Pred. No. 1.4e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Varfolomeev E;
                                                                                                                                                                                   0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 4; Col 55; 126pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (YEDA ) YEDA RES & DEV CO LTD.
                                                                                                                                                                                                                                                                                                                                                   AAD61712 standard; DNA; 28 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 95WO-US005854.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytostatic; PCR; primer; ss.
                                                                                                                                                                                                                     1416 GCTGGAGCTGCAG 1428
                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                     12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-799831/75.
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hes 15; Conserv
                                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US6579697-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-MAY-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unidentified
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                                                                                                                                                                                                                                                                                                                                                                                       AAD61712;
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                                                                                                                                                  Query Match
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                                                                                                                                                                                                                                                                                                                RESULT 1145
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Matches
                                                                                                                                                                                     Matches
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Lindstroem PHR;

97US-0042930P.

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This sequence represents a PCR primer for the human ACE (angiotensin converting enzyme) gene, and can be used in the method of the invention. The method is for assessing cardiovascular status in humans by determining the sequence of at least one polymorphic site in the ACE (angiotensin converting enzyme), AGT (angiotensinogen) and/or ATI (type I angiotensin II receptor) genes, and comparing the polymorphic pattern with predetermined markers of status. The method is used to assess blood pressure or electrocardiographic profile, to diagnose a cardiac condition such as (silent) myocardial infarction (MI), CC diagnose a cardiac condition such as (silent) myocardial infarction (MI), CC diagnose to treatments with ACE inhibitors, angiotensin II receptor antegonists, diuretics, alpha- or beta-adrenergic receptor antegonists, contained to identify susceptibility to cardiovascular consequence of includence of includence of cardiovascular contens and libraries of nucleic acids containing polymorphic positions in the 3 genes, and libraries of targets corresponding to the peptides from the pentides acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
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0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                contained in the library can be is used as source of probes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.5%; Score 11.2; DB 1; Length 16; 81.2%; Pred. No. 8.7e+02; rive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 16 BP; 1 A; 9 C; 2 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВР.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 232 AGTGAGAGGCCATAGC 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA38209 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16 AGTGAGAGGCGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
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1827 CGTGGGCTCAAGAGCCTGAGT 1847

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RESULT 1146

(first entry)

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The invention relates to a novel method of assessing the cardiovascular status in an individual and to newly identified polymorphisms in the genes encoding angiotensin-converting enzyme (ACB), angiotensin II receptor type 1 (ATI) and type 2 (AT2), angiotensin II receptor type 1 (ATI) and type 2 (AT2), angiotensing (AGT), remin, allowed encoderenty and comparisms and comparisms and comparisms and comparisms of the cardiovascular disease determining the sequence at one pattern of polymorphic positions within these genes, and comparing the pattern obtained from a population of individual with a reference polymorphic pattern obtained from a population of individual schibiting a pretern obtained from a population of individual schibiting a useful for determining the predisposition of an individual to cardiovascular disorders such as myocardial infarction, unstable angina, predicting the likely cardiovascular disorders such as myocardial infarction, unstable angina, predicting the likely cardiovascular factors of a pattern given a predicting the likely cardiovascular disorders and such of a retainment regimen. ACE inhibitors, beta-adranezgic receptor antagonists (beta-blockers) or calcium channel blockers). Cone or more polymorphic markers provides a basis for predicting the outcome of a treatment regimen. Fragments of the genes comprising a polymorphic site may be used as provides a passis for high throughput screening. The genes, and the proteins concides a passis for high throughput screening. The genes, and the proteins chapt encode are useful in the screening of potential cardiovascular chapters and problem for a particular drugs. Determination of an individual's polymorphic pattern reduces or eliminate patients from clinical trials who are predicted to be noncereased than a patroved for an adverse response, to a particular creatment regimen. Adverse results in an early trial can be evaluated correction. Substances publication of the the approved for a clinical trials who are predicted to be noncereasing the num
                                                                                                    Angiotensin-converting enzyme gene, ACE; polymorphism; polymorphic marker; cardiovascular disease; mycoradial infarction; unstable angina; hypertension; atherosclerosis; stroke; prognosis; drug screening; treatment outcome; human; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polymorphic pattern comprising polymorphic positions within genes encoding specific proteins, with reference polymorphic pattern.
                                                        Human angiotensin-converting enzyme (ACE) PCR primer, SEQ ID NO:9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Assessing cardiovascular status in humans involves comparing test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Norberg LT, Andersson MK,
                                                                                                                                                                                                                                                          40200022166-A2
                      21-AUG-2000
                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                         13-OCT-1999;
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Example 1; Page 48; 126pp; English

Jonsson L;

Lindstrom PHR,

(EURO-) EURONA MEDICAL AB

WPI; 2000-318010/27

99WO-IB001678 98US-0104286P 98US-0104302P

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention is related to methods for determining the polymorphic pattern of an individual and using the results to determine their risk of a number of diseases, including cancer, cardiovascular diseases, glaucoma and nervous system disorders such as depression and neurodegenerative diseases. In addition, the methods can be used to determine the effects of different types of treatment for individuals, and thus enables appropriate therapies to be prescribed. THE PCR primers shown in sequences AAC61201-C61371 were all used to demonstrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                at one
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Assessing disease status in individual by determining sequence(s) at or or more polymorphic positions within the human genes encoding the protein(s) involved in physiological pathway associated with treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                             Gaps
                                                                                                                                                                                                                                                                 Human, genetic polymorphism, disease diagnosis, treatment, cancer, cardiovascular system, nervous system, glaucoma, PCR primer; ss.
                                                                                                                                                                                                                                    Human ACE, AGT and AT1 genes polymorphisms PCR primer SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sanders R;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.5%; Score 11.2; DB 1; Length 16;
81.2%; Pred. No. 8.7e+02;
Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
 Score 11.2; DB 1; Length 1 Pred. No. 8.7e+02; 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Olaisson E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 16 BP; 1 A; 9 C; 2 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Jonsson L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Page 55; 141pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ24931 standard; DNA; 16 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                         99US-0126046P.
99WO-IB000497.
99US-0126243P.
99US-00471890.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            232 AGTGAGAGGCCATAGC 247
                                                          247
                                                                                                                                                        BP.
                                                                                                                                                                                                                                                                                                                                                                                                2000WO-GB001102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Norberg LT,
                                                                                                                                                        AAC61209 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GEMI-) GEMINI GENOMICS AB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGTGAGAGGCGAGGGC
                                                                                                                                                                                                               (first entry)
                                                                                   AGTGAGAGGCGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 81.2
nes 13; Conservative
                                                          232 AGTGAGAGGCCATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  methods of the invention
                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-638268/61.
                 Local Similarity
                                                                                                                                                                                                                                                                                                                                            WO200056922-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lindstrom PHR,
                                                                                                                                                                                                                                                                                                                                                                                                                                        23-MAR-1999;
24-MAR-1999;
23-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                 23-MAR-2000;
                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                            23-MAR-1999;
                                                                                                                                                                                                              30-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                     28-SEP-2000.
                                13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                      AAC61209;
                                                                                      16
  Query Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 1149
                                                                                                                             RESULT 1148
AAC61209/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Loca
Matches
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ID AAQ2
XX
                                Matches
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BP; 1 A; 9 C; 2 G; 4 T; 0 U; 0 Other;

Sequence 16

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Transcriptional control recognition element recognition sequences may be recognised by control proteins and are involved in either enhancing or repressing transcription of associated sequences. TCR sequences include promoter elements, hormone receptor elements, viral, cellular, liver or tissue elements, etc. The sequence represents an exemplary tissue associated element, the immunoglobulin gene enhancer element mu E2. A typical application of the TCRE recognising oligonucleotides is inhibition of viral proliferation. See also AAQ30472-518. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New oligo-nucleotide(s) contg. transcription control recognition element - stabilised by covalent bonding of two DNA strands, act as decoys for regulatory protein to modulate specific RNA.
                                                                                                                                                                    The sequence is the complement of (250) (AAQ24927). The selected primer is used in practice of the single primer amplification reaction (SPAR). (Updated on 25-MAR-2003 to correct PN field.)
                                                          Nucleic acid sequence single primer amplification - useful for genomic variation analysis and polymorphism detection for restriction fragment length data.
                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Transcriptional control recognition element, decoy, cellular RNA, promoter; hormone receptor element, viral; liver; tissue; viral; proliferation; linker; NF-1; ss.
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                                                                                                                                                                                                                                                                                 Query Match

0.5%; Score 11.2; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.7e+02;
Matches 13; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunoglobulin gene mu E2 enhancer under control of TCRE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 16 BP; 3 A; 6 C; 6 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                    Seguence 16 BP; 5 A; 1 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (SALK ) SALK INST BIOLOGICAL STUDIES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure, Page 7; 41pp; English.
                                                                                                                                          Claim 16; Page 39; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                               1131 CTTCACCTCCAGCTCC 1146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ30514 standard; DNA; 16 BP.
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                                                                                                                                                                                                                                                                                                                                                                                            16 CrccrrcrccAGCrcc 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
Filner P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (revised)
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                                 WPI; 1992-183683/22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Chu BC, Orgel L;
Cardineau GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO9218522-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-MAR-2003
19-MAR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ30514;
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AAQ30514
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The sequence is the complement of (250) (AAQ24927). The selected primer is used in practice of the single primer amplification reaction (SPAR). (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic acid sequence single primer amplification - useful for genomic variation analysis and polymorphism detection for restriction fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Match 0.5%; Score 11.2; DB 1; Length 16; Local Similarity 81.2%; Pred. No. 8.7e+02; les 13; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 16 BP; 5 A; 1 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homeo box consensus sequence primer (258).
                                                                                           Homeo box consensus sequence primer (258)
                                                                                                                              Single primer amplification; SPAR; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Single primer amplification; SPAR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 16; Page 39; 65pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1419 GGAGCTGCAGAACGGG 1434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90US-00610973.
91US-00737919.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGAGCTGGAGAAGGAG 16
                                                                                                                                                                                                                                                                                                              90US-00610973.
                                                                                                                                                                                                                                                                           91WO-US008233
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (revised)
(first entry)
                                     (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                        Cardineau GA, Filner P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (LUBR ) LUBRIZOL CORP
                                                                                                                                                                                                                                                                                                                                                                     (LUBR ) LUBRIZOL CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1992-183683/22.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-NOV-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-NOV-1990;
29-JUL-1991;
                                                                                                                                                                                                                                                                                                              06-NOV-1990;
29-JUL-1991;
                                                                                                                                                                                                                                                                           35-NOV-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  length data.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-MAR-2003
19-NOV-1992
                                                                                                                                                                                                       V09207948-A1
                                     25-MAR-2003
19-NOV-1992
                                                                                                                                                                                                                                        14-MAY-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Si
Matches 13;
                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ24931;
   AAQ24931;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1150
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ð 셤 AAQ21918/

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The sequences given in AAQ92112-211 are probes which were used in the detection of a mutant p53 gene sequence. The DNA to be detected is amplified using PCR and then these probes which are pref. labeled using 32-P gamma-ATP are used the them utant sequences. The primers and probes given in AAQ9209-219 are used in the method of the invention for detecting mammalian target DNA in sputum samples. Analysis of the target DNA is used to diagnose benign or malignant neoplasms of the lung. It is also useful for screening people at high risk or for monitoring progress of treatment of lung neoplasms. The method is based on the discovery that mutant terget DNA associated with lung cancer is present at detectable levels in sputum. Cells shed into sputum from head and neck cancers may also be detected
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Detecting target nucleic acid in mammalian sputum - particularly for diagnosis of lung neoplasia involving mutation(s) in the K-ras oncogene
                                                                                                                                                                                                                                                                                  Primer; polymerase chain reaction, amplify; mutant; K-ras; PCR; flanking region; amplification; probe; detection; sputum; diagnosis; benign; malignant; neoplasm; lung; lung cancer; head; neck; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.5%; Score 11.2; DB 1; Length 16;
81.2%; Pred. No. 8.7e+02;
ive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 16 BP; 3 A; 9 C; 3 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                               p53 detection probe, (codon 176 TGC to TAC).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (UYJO ) UNIV JOHNS HOPKINS SCHOOL MED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 30; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1086 AGGCTTCACCCCACC 1101
1174 TTTGCGGCTCCCGCA 1189
                                                                                                                                  ВР.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  94WO-US012947.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       93US-00152313.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 AGGCGCTACCCCCACC 16
                                                                                                                                  AAQ92129 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX22506 standard; RNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                        16 TTTGCAACTCCCCGTA
                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   or p53 tumour suppressor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (revised)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1995-194114/25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                                                                      WO9513397-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-MAR-2003
21-MAY-1999
                                                                                                                                                                                                            11-JAN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sidransky D;
                                                                                                                                                                                                                                                                                                                                                                                                                                           18-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAX22506;
                                                                                                                                                                     AAQ92129;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                1153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 1154
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Matches
                                                                                                              AAQ92129
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                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New oligo nucleoside(s) and nucleotide(s) with up to 200 bases - nuclease resistant anti sense cpds. useful for treating hereditary disorders of altered genetic expression mechanisms.
                                                                                                                                                                                                                                                                                                                                                                                      tetraethylene glycol; cancer; antisense; gene expression; inhibition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cavanaugh PF;
                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 0.5%; Score 11.2; DB 1; Length 16; Best Local Similarity 81.2%; Pred. No. 8.78+02; Matches 13; Conservative 0; Mismatches 3; Indels
              Query Match 0.5%; Score 11.2; DB 1; Length 16; Best Local Similarity 81.2%; Pred. No. 8.7e+02; Matches 13; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                               TEG-terminated exonuclease stable oligonucleotide #27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Delecki DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 16 BP; 5 A; 2 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chaturvedu PVC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mod_base= OTHER
/note= "see comments"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                note= "see comments'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 42; Page 70; 90pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *tag= a
mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900S-00582287.
900S-00582456.
900S-00582457.
910S-00682784.
                                                                                                1188 CAGAGAGGTGGCACCA 1203
                                                                                                                                                                                                                                 BP.
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                                                                                                                                  CAGGCAGGTGGCCCCA 16
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                                                                                                                                                                                                                                 AAQ21918 standard; DNA; 16
                                                                                                                                                                                                                                                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /mod_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1992-080016/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-AUG-1990;
13-SEP-1990;
13-SEP-1990;
13-SEP-1990;
09-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                            11-JUN-1992
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Moskwa PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                     AAQ21918;
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Gaps

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This invention describes the use of novel acidophilic and thermostable xylanase enzymes (XYL I and XYL II) from Actinomadura sp. FC7 which retain their activity under harsh industrial conditions (e.g. high temperature or wide pH ranges) and may be secreted by recombinant host cemperature or wide pH ranges Xylanases XYL I and XYL II are part of a large group of hemicellulase enzymes and function by cutting the beta-1,4 bonds within the xylosic chain of xylan (a polymer of D-xylose residues that is a major constituent of hemicellulose). This means that they may be used in the paper and pulp industry to improve the efficiency of the bleaching process by degrading the structure of the material. XYL I and XYL II may also be used to treat feed, by degrading a substrate with a high temperatures (e.g. 70 deg. C) and at low pis (e.g. 4.0), conditions which tend to denature most known xylanases. Enzymes that cartive in these conditions may be used in industrial processes that are cartied out at high temperature and low pit to speed up other, non-enzymatic reactions, minimising costs, energy requirements, and the facilitate chlorine bleaching of paper pulp which is carried out in hot, cidic conditions). Pretreatment with XYL I and XYL II, allows the bleaching agents to penetrate better, to remove lignin from the pulp and conditions the colouration from it of main smalls smaller guantities of the degents can be used to produce the same or a better result. Also, disrupting the structure aids water drainage. NOTE: This patent is an equivalent to F19503640. (Updated on 25-MAR-2003 to correct DR field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New acidophilic and thermostable xylanase enzymes from Actinomadura sp. RC7 - useful for treating plant biomass, especially paper and wood pulp, to degrade hemicellulose and hydrolyse xylan.
                                                         Xylanase; acidophilic; thermostable; XYL I; XYL II; plant biomass; hemicellulase; beta-1,4 bond; xylosic chain; xylan; D-xylose; paper; pulp; chlorine bleaching; feed; beta-glucan; cellulose; lignin; ds.
                    Streptomyces sp. orf1590 gene RBS RNA fragment
                                                                                                                                                                                                                                                                                                                                                                                                           Dery CV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 7; Fig 7; 60pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1228 CTTGCGACAGCCCTCG 1243
                                                                                                                                                                                                                                                                               94US-00282197.
                                                                                                                                                                                                                                                                                                                        94US-00282197.
                                                                                                                                                                                                                                                                                                                                                                                                           Brzezinski R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATGCGCCACCCTCG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1996-141348/14.
                                                                                                                                                   Streptomyces sp
                                                                                                                                                                                                                                                                            29-JUL-1994;
                                                                                                                                                                                                                                                                                                                        29-JUL-1994;
                                                                                                                                                                                            JS5871730-A.
                                                                                                                                                                                                                                                                                                                                                                                                           Beaulieu C,
                                                                                                                                                                                                                                   16-FEB-1999
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0
                                    0.5%; Score 11.2; DB 1; Length 16; 81.2%; Pred. No. 8.7e+02; tive 0; Mismatches 3; Indels
Sequence 16 BP; 2 A; 3 C; 9 G; 0 T; 2 U; 0 Other;
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AAT38471 standard; DNA; 16
                                            17-JAN-1997
                             AAT38471;
RESULT 1155
        AAT38471
               EXXXE
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(first entry)

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PCR primer GSP 2 (AAT38471) is based on Ancylostoma secreted protein (ASP) genes (see also AAT38466-68), and is located internally to primer (SAP) genes also AAT38400. It was used with a S' poly(6) anchor primer (AAT38473) in a S'RACE PCR amplification of Ancylostoma canimum L3 larva cDNA. A second PCR using nested primers (see also AAT38472-73) yielded (AAT38466) coding for ASP-1 (AAW04321), a protein useful in hookworm vaccine, was identified
                                                                                                                                                                                                                                                                                                                                                  Ancylostoma caninum secreted protein - useful as antigen for hookworm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                     Ancylostoma secreted protein; ASP-1; hookworm; vaccine; ARCE; Ancylostoma caninum; polymerase chain reaction; PCR; primer; 5'RACE; rapid amplification of cDNA ends; 8s.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                / Match 0.5%; Score 11.2; DB 1; Length 16; Local Similarity 81.2%; Pred. No. 8.7e+02; les 13; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 16 BP; 4 A; 7 C; 5 G; 0 T; 0 U; 0 Other;
             Ancylostoma secreted protein ASP-1 primer GSP 2.
                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Page 33; 66pp; English
                                                                                                                                                                                                                                                                                         Jones BF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1290 CCACAAGCCACAGAGC 1305
                                                                                                                                                                                                                            95US-00419414.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 ccaccadccadadada 16
                                                                                                                                                                                                                                                                                          Hawdon JM, Hotez PJ,
                                                                                                                                                                                                                                                                                                                      WPI; 1996-477130/47.
                                                                                                                                                                                                                                                           (UYYA ) UNIV YALE
                                                                                                                                                                                                                                                                                                                                                                    vaccine prodn
                                                                                                                                   WO9632479-A1
                                                                                                                                                                                                10-APR-1996;
                                                                                                                                                                                                                             10-APR-1995;
                                                                                                                                                                  17-0CT-1996
                                                                                                     Synthetic.
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Matches
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Oligonucleotide containing 6'-substituted carbocyclic nucleoside. SB. antisense therapy; nucleoside carba analogue; diagnostic; ВP. AAT37119 standard; DNA; 16 (first entry) 17-MAR-1998 Synthetic AAT37119;

RESULT 1156

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these bases is a 6'-substituted carba Location/Qualifiers analogue of T" /*tag= a Key modified_base WO9619478-A1 27-JUN-1996

95WO-EP004840

08-DEC-1995;

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This sequence represents a probe for the precore region of hepatitis by virus (HBV). This sequence can be used in the method of the invention for detection and/or genetic analysis of hepatitis B virus (HBV) in a sample. The method comprises: (a) optionally releasing, isolating or concentrating polynucleic acids (1) in the sample, and amplifying the crietavant part of a suitable HBV gene in the sample with at least 1 crietavant part of a suitable HBV gene in the sample with at least 1 crietavant and hybridisal printing (1) with a combination of at least 2 nucleotide probes, which are applied to known locations on a solid or support and hybridise specifically to mutant target sequences chosen from the HBV RP pol gene region, HBV procore region, HBABy region and/or HBV genotype specific target sequences, or their complements or U for T complements (b), and inferring the HBV genotype and/or mutants present in the sample from the differential hybridisation signal (s). The composition can be used to diagnose and/or monitor HBV mutants and/or genotypes in a sample, specifically genotype, precore mutations, vaccine escape mutations and RT generalizations selected by treatment with drugs, e.g. lamivudune and precore core mutations. (c) field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Preparation of antisense oligo:nucleotide(s) which lack long runs of consecutive guanosine or inosine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapeutically or to modulate growth of cells in
               Detection and/or genetic analysis of hepatitis B virus - specifically genotype, precore mutations, vaccine escape mutations and RT gene mutations selected by treatment with drugs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene; antisense oligonucleotide; modulate; gene expression; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 0.5%; Score 11.2; DB 1; Length 16; Best Local Similarity 81.2%; Pred. No. 8.7e+02; Matches 13; Conservative 0; Mismatches 3; Indel9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 16 BP; 1 A; 2 C; 8 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rb gene antisense oligonucleotide rb-45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 10; Fig 9a; 286pp; English
                                                                                          Claim 5; Page 26; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1053 CCTGGCCCCAAACCCA 1068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCATGCCCCAAAGCCA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similaricy
Matches 13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                 An oligonucleotide is claimed which contains 2-200 residues of natural or synthetic nucleosides which are linked via a nucleotide bridging group. At least 2 of the residues are nucleoside carba analogues (i.e. nucleosides in which the furanose ring is replaced by a cyclopentane ring) having a defined generic formula given in the patent; and at least 2 of these nucleosides are consecutive on at least one occasion. The longonucleotides can be used in antisense therapy for treating infections and diseases, e.g. by blocking the expression of bioactive proteins at the level of nucleic acids (e.g. oncogenes). They can also be used as diseance than that of oligonucleotide which contain natural certainments than that of oligonucleotide which contain natural nucleosides in place of the carba analogues. Furthermore they have increased stability towards degradation by nucleases, and their pairing with complementary RNA is improved. The present sequence is a specific example of an oligonucleotide containing the carba analogues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Probe; hepatitis b virus; HBV detection; RT pol region; genetic analysis; preCore region; HBsAg region; genotype specific target; mutation detection; ss.
                                                                                                                                                              New oligo:nucleotide(s) for use in anti:sense therapy - having at least
two consecutive 6-substd carbocyclic nucleoside(s) in their sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.5%; Score 11.2; DB 1; Length 16;
81.2%; Pred. No. 8.7e+02;
ative 0; Mismatches 3; Indels 0; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Probe HBPr9 for preCore region of HBV.
                                                                                                                                                                                                                   Example C2; Page 47; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Stuyver L, Rossau R, Maertens G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1002 GARATCGACACCTGAR 1017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP.
                 19-DEC-1994; 94CH-00003825.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16 GAAACGGACACCTGGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV14113 standard; DNA; 16
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Best Local Similarity 81.24
Matches 13, Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (revised)
                                                  (CIBA ) CIBA GEIGY AG
                                                                                                                           WPI; 1996-309503/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1997-535867/49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hepatitis B virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-APR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-AUG-2003
19-MAY-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-OCT-1997.
                                                                                          Altmann K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAV14113;
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Gaps

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AAV49008-236 represent antisense oligonucleotides directed against the rb gene. Of these, only aligonucleotides AAV49008-52 resulted in effective gene. Of these, only aligonucleotides AAV49063-52 resulted in effective aAV49052-236 had little effect. The oligonucleotides exemplify the invention. The specification describes oligonucleotides that contain 8-30 nucleotides, which contain at most 8 nucleotides that contain 8-30 nucleotides which contain at most 8 nucleotides that contain 8-30 nucleotides bonds to cytosine, do not contain two sequences of three consecutive cytosines; do not contain two sequences of three consecutive nucleotides each able to form the H-bonds each (2R) or three such bonds (2R) is given by 2R/3R = 0.33-0.72. The oligonucleotides are used to modilate expression of genes, particularly the genes for p53, ErB-2, junb, junb, cg. one marrow stem, liver or kidney cells, osteoclasts and/or keratinocytes). The oligonucleotides can also be used to analyse thoration of primain their expression or activity) and therapeutically, e.g. in cases of cancer or (targeting TGF) for
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Sequence 16 BP; 3 A; 4 C; 5 G; 4 T; 0 U; 0 Other;

ö Gaps . 0 Query Match

0.5%; Score 11.2; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.7e+02;
Matches 13; Conservative 0; Mismatches 3; Indels

RESULT 1160

741 GAACACCGTGTGCACC 756 16 GGACACTGTGTACACC 1 ò g

AAA04899 standard; DNA; 16 BP. AAA04899; RESULT 1159 AAA04899

(first entry) 18-MAY-2000 Tenascin-C phosphorothioate antisense oligonucleotide SEQ ID NO:188.

Human, Tenascin-C, extracellular matrix protein, phosphorothicate, antisense oligonuclectide, inhibition, exon deletion, therapy, cellular development, differentiation; translation, ss.

sapiens Synthetic. WO200006775-A1.

LO-FEB-2000.

99WO-US016632.

23-JUL-1999;

98US-0094255P. 27-JUL-1998;

(UYVI-) UNIV VIRGINIA COMMONWEALTH.

Gillies GT, Broaddus WC, Fillmore H,

Conrad WS;

VPI; 2000-183137/16.

Preparing antisense oligodeoxynucleotides (ODNs) and long antisense RNA sequences useful for blocking translation of a specific isoform of Tenascin-C protein.

Claim 23; Page 89; 177pp; English.

The present invention describes a method for preparing an antisense oligodeoxymucleotide (ODN) sequence for blocking translation of a specific protein isoform that can be expressed as a number of different isoforms. AAA0512 to AAA05243 represent specifically claimed

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phosphorothioate antisense ODNs for blocking translation of Tenascin-C using the method of the invention. The method is useful for preparing an obn sequence for blocking translation of a specific isoform of Tenascin-C protein. The method is also useful for blocking translation of a specific family of isoforms of a protein. The method can also be performed by producing a long antisense expression vector encoding a long antisense producing translation of a specific protein isoform. The ODNs and long antisense constructs are useful in designing models for studying cellular development and differentiation. The method permits as a result of alternative splicing. AAAOS244 represent an oligonucleotide from the present invention, which is given in the sequence listing but not mentioned further within the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.5%; Score 11.2; DB 1; Length 16; Best Local Similarity 81.2%; Pred. No. 8.7e+02; Matche's 13; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                      Sequence 16 BP; 0 A; 4 C; 5 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1279 GAGGACAGCGCCCACA 1294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16 GAAGACAGCACCGACA 1
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Reverse PCR primer for STP2 exons 5 and 6 amplification. ВЪ. AAZ59366 standard; DNA; 16 05-APR-2000 (first entry) AAZ59366; AAZ59366

Single nucleotide polymorphism; SNP; STP2; phenol sulphotransferase; genotyping; human; drug metabolism; PCR primer; ss. 99WO-US013094; WO9964630-A1. Homo sapiens. 199-JUN-1999; 16-DEC-1999.

98US-0088710P. (AXYS-) AXYS PHARM INC. 10-JUN-1998;

WPI; 2000-105892/09. Guida M, Kurth J;

Novel nucleic acid used for genotyping, e.g. to predict rate of drug metabolism.

Disclosure; Page 13; 46pp; English.

This sequence represents a PCR primer used in the amplification of exons 5 and 6 of human phenol sulphortansferase 2 (STP2). The invention relates from sequences AAZ59305-Z59352 which are fragments of the STP2 gene. The fragments are from the 8 exons, the promoter region, 3' and 5' untranslated regions of the STP2 gene. Each of the sequences contains a newly identified STP2 gene single uncleotide polymorphism (SNP). STP2 is a phenol sulphortansferase. Substrates for STP2 include minoxidit, acetaminophen, and paranitrophenol. Several of the nucleotide changes indentified at the polymorphism sites, give rise to an amino acid change. Amino acid changes can be used as probes for detecting STP2 polymorphisms. The polymorphic probes are used in screening and genotyphing, i.e. to predict the rate of metabolism of STP2 substrates, potential drug-drug interactions and adverse side effects. They can also be used to detect diseases resulting

in the CD36 genes. AAA40606 to AAA40759, and AAB02515 to AAB02564, represent nucleotide and amino acid sequences respectively which are used in the exemplification of the present invention

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The present invention describes isolated nucleic acid molecules (A) encoding mutant CD36 proteins (B). Parasites such as Plasmodium falciparum (the major cause of malaria) are unable to utilise the mutated proteins to gain entry to, and infect cells. The mutant CD36 proteins do not function correctly preventing parasites utilising them to infect cells. The mutant CD36 proteins do not function correctly preventing parasites utilising them to infect cells. The mutant CD36 proteins according to standard methodologies. They may be used in this way to prevent and treat parasitic infections that utilise the CD36 protein to infect cells, such as P. falciparum, the major cause to from the CD36 protein to infect cells, such as P. falciparum, the major cause of CD36 expression and activity or a patient's CD36 DNA may be screened to determine whether there are any mutations present that may confer resistance to parasitic infections. The proteins and mucleic acids may also be used to prevent, diagnose and treat diseases associated with defects in insulin action and/or glucose metabolism and/or fatty acid metabolism and/or catecholamine action in subjects possessing mutations
                                                                                                                                   ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human, rat, CD36; SHR; spontaneous hypertensive rat; diagnosis; therapy; screening; polyymorphism; variant; detection; mutant; blood; mutation; insulin; glucose metabolism; fatty acid metabolism; catecholamine; malaria; infection; parasite; antiparasitic; antidiabetic; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                     Human CD36 polymorphism sequence variant oligonucleotide SEQ ID NO:186
                                                                                                                                   Gaps
from accidental or occupational exposure to toxins and to establish animal, cell or in vitro models for drug metabolism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acids encoding mutant CD36 proteins useful for preventing, diagnosing and treating parasitic infections, especially malaria.
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                                                                                        ch 0.5%; Score 11.2; DB 1; Length 16; l Similarity 81.2%; Pred. No. 8.7e+02; 13; Conservative 0; Mismatches 3; Indels
                                                        Sequence 16 BP; 5 A; 4 C; 6 G; 1 T; 0 U; 0 Other;
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98US-00221222.
99US-00270542.
                                                                                                                                                                       874 GACTCAGGCACCACAG 889
                                                                                                                                                                                                                                                                                                      AAA40694 standard; DNA; 16 BP
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                                                                                                                                                                                                           GACTCAGGCACAGGAG 16
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                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (STAN/) STANTON L W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SCIOS INC.
AITMAN T J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2000-303596/26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200019883-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-OCT-1999;
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17-MAR-1999;
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                                                                                            Query Match
Best Local S
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                                                                                                                                                                                                                                                                    1161
                                                                                                                                 Matches
                                                                                                                                                                                                                                                                RESULT 11
AAA40694
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This sequence represents an oligonucleotide used in the construction of gag-pol expression cassettes. The invention relates to a retroviral vector construct which consists of a 5'-long terminal repeat (5'-LTR); a tRNA binding site; an origin of second strand DNA synthesis; a 3'-LTR and gag/pol sequences modified to contain two or more stop codons. The invention also relates to a gag/pol expression cassette, and an enverpression cassette. The retroviral construct has anticancer, antiviral and immunomodulatory activity. The retroviral constructs are used to produce recombinant retroviral particles for use in gene transfer, particularly gene therapy, e.g. to deliver heterologous sequences that encode cytotoxins, produug activators, replacement genes, antisense sequences or ribozymes, immune accessory molecules and viral immunogens, particularly for treatment or prevention of tumours, viral infections and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New retroviral construct, used to produce retroviral particles for gene therapy, containing a gag/pol sequence that includes at least two stop codons, incapable of producing replicable virus by recombination.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Gag; pol; retroviral vector construct; gag/pol expression cassette; anticancer; antiviral; immunomodulatory; cytotoxin; prodrug activator; replacement gene; antisense sequence; ribozyme; tumour prevention; viral infection; genetic disorder; ss.
                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                               Oligonucleotide #2 used in gag-pol expression cassette construction
                                                                                                                                           ;
0
                                                                                                   Query Match 0.5%; Score 11.2; DB 1; Length 16; Best Local Similarity 81.2%; Pred. No. 8.7e+02; Matches 13; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bodner M, Driver DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 16 BP; 6 A; 6 C; 3 G; 1 T; 0 U; 0 Other;
                                                                    Sequence 16 BP; 2 A; 4 C; 2 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 3; Col 24; 63pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sauter S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94US-00240030.
95US-00437465.
96US-00643411.
96US-00721327.
                                                                                                                                                                                                                                                                                                        AAZ90068 standard; DNA; 16 BP.
                                                                                                                                                                                936 CCTCTTCATTGGTTTA 951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97US-00850961
                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-159877/14.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  genetic disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-MAY-1994;
09-MAY-1995;
06-MAY-1996;
                                                                                                                                                                                                                                                                                                                                                                               09-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US6013517-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-JAN-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-SEP-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                           AAZ90068;
                                                                                                                                                                                                                                                                      RESULT 1162
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0.5%; Score 11.2; DB 1; Length 16;

Query Match

angiogenic disorder; wound healing; cancer; cardiovascular; psoriasis; vascular tumour; proliferative tumour; proliferative vitreoretinopathy; rheumatoid arthritis; Crohn's disease; atherosclerosis; endometriosis; neovascularisation; restenosis; hypertension; aneurysm; angina; myocardial infarction; pronic heart condition; osteoporosis; PCR primer; hybridisation; probe; ss.

Human; differentially expressed gene; angiogenesis; diagnosis;

Cathepsin B reverse PCR primer SEQ ID NO:43.

(first entry)

21-AUG-2001

AAH22297;

AAH22297 standard; DNA; 16 BP

AAH22297

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The present sequence is provided in a specification relating to a method for determining whether a subject has or is predisposed to develop an interstitial lung disease. The method involves detecting an interleukin-1 receptor antagonist (IL-IRW) (+2018) allele 2, a tumour necrosis alpha (TNF-A) (-308) allele 2, or an allele in linkage disequilibrium with either of these two alleles. The method may be used to determine whether a subject has or is predisposed to develop an interstitial pneumonia or a pulmonary fibrosis and other disorders such as rheumatoid arthritis, systemic objects sythmatchesis, Sjognen's syndrome, systemic sclerosis, dermaromyocitis. The method is also used for identifying molecules which can be used as therapeutics for treating interstitial lung disease
                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Method for predicting the risk of interstitial lung disease, comprising detecting an interleukin-1 receptor antagonist allele and tumor necrosis alpha allele or an allele in linkage disequilibrium with either of these
                                                                                                                                                                                                                                                                                                                                                                                               pneumonia;
                                                                                                                                                                                                                                                                                                                                                     cytostatic; antiinflammatory; immunosuppressive; dermatological; antimicrobial; antiarthritic; IL-1 receptor antaqonist; rinterstitial lung disease; interstitial pneumonia; pulmonary fibrosis; rheumatoid arthritis; systemic lupus erythmatosis; Sjogren's syndrome; systemic sclerosis; dermatomyocitis; chromosome 2;
                       Gaps
                                                                                                                                                                                                                                                                                                                                         Human; TNFalpha; tumour necrosis factor alpha; interleukin-1; IL-1;
                     ö
 81.2%; Pred. No. 8.7e+02;
iive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                     Human TNFalpha gene Taqman assay probe 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 2; Page 71; 102pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Whyte M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (INTE-) INTERLEUKIN GENETICS INC.
                                                         1056 GGCCCCAAACCCAAGC 1071
                                                                                                                                                                                         AAC63783 standard; DNA; 16 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-MAR-2000; 2000WO-US008492.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99US-002B6108
                                                                                             1 GGCGCCAAACCTAAAC 16
                                                                                                                                                                                                                                                                 (first entry)
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                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-656234/63.
Best Local Similarity
Matches 13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200060117-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                 08-FEB-2001
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                                                                                                                                                                                                                             AAC63783;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           alleles
                                                                                                                                                     RESULT 1163
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The present invention describes differentially expressed genes involved on angiogenesis (I), and the polypeptides that encode them. (I) have cardiovascular activity, and can be used in the modulation of the interpolypeptides may be used in the prevention, diagnosis and treatment of diseases associated with interpolypeptides may also be used as antigens in the production of antibodies against them and in assays to identify condilators of their expression and activity. The antibodies and activity and attagonists may also be used to down regulate expression and activity and against for detecting the presence of the polypeptides in samples.

Condilators that may be prevented, diagnosed and/or treated by the above methods include, for example vascular tumours, proliferative tumours, proliferative tumours, proliferative uncours, or proliferative vitreoretinopathy, rheumatoid arthritis, Crohn's disease, atherosolerosis, ovarian hyperstimulation, psoriasis, endomerriosis associated with neovascularisation, restenosis subsequent to balloon angioplasty, scar tissue over production. Peripheral vascular disease, thypertension, inflammatory vasculitides, Reynaud's disease and Reynaud's phenomenon, aneurysms, arterial restenosis thrombophlebitis, conditions, heart failure such as condestive heart failure, age-related macular degeneration and osteoprosis. AAH22255 to AAH22255 and AAB98322 conditions, heart sequence used in the exemplification of the present
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0.5%; Score 11.2; DB 1; Length 81.2%; Pred. No. 8.7e+02;

Query Match Best Local Similarity

Sequence 16 BP; 3 A; 9 C; 2 G; 2 T; 0 U; 0 Other;

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Gaps

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0.5%; Score 11.2; DB 1; Length 16; 81.2%; Pred. No. 8.7e+02; ve 0; Mismatches 3; Indels

81.2%;

Query Match 0.5 Best Local Similarity 81.2 Matches 13; Conservative

1245 CTCCGACCCCATCCCC 1260

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CCCCGTCCCCATGCCC 16

RESULT 1164

Sequence 16 BP; 1 A; 11 C; 2 G; 2 T; 0 U; 0 Other;

Differentially expressed genes involved in angiogenesis, useful for treating e.g. vascular tumors, atherosclerosis and/or restenosis subsequent to balloon angioplasty.

Example 19; Page 148; 182pp; English.

Rastelli L;

Mehraban F, Gerritsen M,

WPI; 2001-291056/30.

(GETH) GENENTECH INC (CURA-) CURAGEN CORP

01-NOV-1999; 99US-0162699P. 13-APR-2000; 2000US-0196802P. 31-QCT-2000; 2000US-00703350. 01-NOV-2000; 2000WO-US030051.

WO200132926-A2.

10-MAY-2001

Homo sapiens

Synthetic.

RESULT 1165

AAS56862

Matches

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MOMIN; Moloney murine leukaemia virus; mouse; retroviral backbone; LTR; gag/pol expression cassette; gag; pol; env; integrase; gene therapy; 8s; tumour; cancer; viral infection; immune response; autoimmune response; graft rejection; cytostatic; antiviral; immunostimulant; PCR; primer; immunosuppressive; murine leukaemia virus 40'0A amphotropic envelope; bovine growth hormone polyadenylation sequence; long terminal repeat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to the coding sequence of human Creaml, which is a protein containing a repetitive 86 amino acid motif. The protein is a transcriptional control factor, and is a conjugate of retinoblastoma protein (Rb). The present sequence is the an intron-exon junction in the coding sequence of the invention
                                                                                           protein coding sequence exon 25/intron 25 junction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New retinoblastoma protein binding protein, its preparation and application.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.5%; Score 11.2; DB 1; Length 16;
81.2%; Pred. No. 8.7e+02;
iive 0; Mismatches 3; Indels
                                                                                                                                 Human, Creaml; repeat; transcriptional control factor; Rb; retinoblastoma protein; intron-exon junction; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gag/pol expression cassette construction primer #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 16 BP; 4 A; 3 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                               (SHAN-) SHANGHAI INST CYTOBIOLOGY CHINESE ACAD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure, Fig 3B; 35pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            727 TGCCAGGAGAACAGA 742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABK33881 standard; DNA; 16 BP.
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                                                                                                                                                                                                                                                                                                                   07-JAN-2000; 2000CN-00111426.
                                                                                                                                                                                                                                                                                                                                                         2000CN-00111426.
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                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 13; Conserv
                                                                                                 Human Creaml
                                                                                                                                                                                                                                                                                                                                                         07-JAN-2000;
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                                                         04-DEC-2001
                                                                                                                                                                                                Homo sapiens
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                     AAI64977;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Zhu X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 1167
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequences AAS56729-AAS56968 represent DNA encoding BRCA-1 regulators, and primers used in the methods of the invention. Hybridisation of ribozymes to their targets results in cleavage of the RNA target. The ribozymes to their targets results in cleavage of the RNA target. The ribozymes can be used to cleave regulators of the tumour suppressor BRCA-1, resulting in upregulation or downregulation of BRCA-1 in a cell. The mRNA targets include those encoding the BRCA-1 regulator BR1, inhibitor CHLR2, AF6, BR2 and BR3. Regulation of BRCA-1 is useful for treating and diagnosing cancer and other proliferative disorders. The severity of an incleance of cancer can be lessened by regulating tumour proliferation through modulation of BRCA-1. The sequences of the invention are useful in the development of anti-cancer drugs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel polypeptides that are the regulators of BRCA-1, useful for treating cancer and diagnosing the presence of neoplastic cells in biological
                                                                                                                                                                                                                                                                                                                                    Human, BRCA-1 regulator, ribozyme, BR1, RNA target recognition, probe, oytostatic, RNA cleavage, tumour suppressor, PCR primer, GHIR2, AF6; BR inhibitor dominant negative 4; breast basic conserved protein 1; BBC1, BR3; ID4; cancer, proliferative disorder; tumour proliferation; ss.
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  Gaps
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  Indels
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  Mismatches
                                                                                                                                                                                                                                                                                                  Validation ribozyme DNA sequence #36
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                                        1126 TCCACCTTCACCTCCA 1141
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                                                                              redecedacacereca
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  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Beger C, Barber J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-611503/70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BEGER C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200170982-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                          16-JAN-2002
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  13;
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                                                                                                                                                                                                                      AAS56862;
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AA164977
ID AA16497
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(BEGE/)

sample.

Best Loc Matches

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Gaps

; 0

Gaps

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schultz451-1.rng

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The invention relates to a method of detecting a virus, particularly of Norwalk-like viruses, using as an indication the nucleic acids of both complementary base sequences corresponding to positions 4851-5450 in the base sequence of CDNA of the prototype of Norwalk-like virus genogroup II (GII). Detection of Norwalk-like virus (GII) is useful in diagnosis of viral food poisoning e.g. non-bacterial gastroenteritis, and for examining foods, particularly fish and shellfish, and infectivity of polluted water systems and other contemination sources like work clothes. This sequence represents a probe for Norwalk-like virus (GII) CDNA, used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in multiwell plates numbered for discrimination are mixed in each of the multiwell plates, (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction, (c) a signal corresponding to the marker is detected from the resultant amplified product to specify the discrimination Nos. of the multiwell plates containing the clones having said marker sequence, (d) the order of the marker is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the multiwell plates of the specified discrimination Nos. may the multiwell and lateral directions; (f) the mixed clones are cultured and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;
Detecting Norwalk-like virus (GII) with kits based on nucleic acids of both complementary base sequences of highly conserved domain in cDNA of its' prototype, useful in diagnosis of viral food poisoning.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 0.5%; Score 11.2; DB 1; Length 16; Best Local Similarity 81.2%; Pred. No. 8.7e+02; Matches 13; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human chromosome 1p36-35 PCR primer SEQ ID NO:26.
                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 16 BP; 4 A; 3 C; 8 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 4; Page 5; 528pp; Japanese.
                                                                                                       Claim 12; Page 49; 52pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1229 TTGCGACAGCCCTCGC 1244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABL42982 standard; DNA; 16 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Arraying genome clones.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-144136/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GENO-) GENOTEX YG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JP2001321190-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABL42982;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 1169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a gag/pol expression cassette comprising a promoter, a gag/pol gene (I) and a polyadenylation sequence in which the 5' end of (I) has been modified to contain codons that are degenerate for gag, or the 3' end of (I) has been deleted without affecting the biological activity of the encoded integrase. The expression cassette and similar cassettes that express env protein, are used to produce recombinant retroviral particles by homologous recombination. These particles are gene transfer vectors, particularly for gene therapy of tumours or viral infections, also to induce an immune response, to treat or prevent diseases, or to suppress graft rejection or immune/autoimmune responses. This sequence represents an oligonucleotide primer used in
                                                                                                                                                                                                                                                                                                                       New gag/pol expression cassette, for preparing retroviral particles for gene therapy, comprises a promoter, a gag/pol gene, and a polyadenylation sequence, and cannot form a replication competent virus by homologous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Norwalk-like virus genogroup II, GII, probe; ss; viral food poisoning; non-bacterial gastroenteritis; fish; shellfish; polluted water system.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                  Driver DA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          construction of gag/pol expression cassettes of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.5%; Score 11.2; DB 1; Length 16; 81.2%; Pred. No. 8.7e+02; ive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Katayama K;
                                                                                                                                                                                                                                  Bodner M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Norwalk-like virus genogroup II (GII) cDNA probe #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 16 BP; 6 A; 6 C; 3 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kojima S, Fukushi S, Hoshino F,
                                                                                                                                                                                                                                  Sauter S,
                                                                                                                                                                                                                                  Chada S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 3; Col 24; 63pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1056 GGCCCCAAACCCAAGC 1071
                                 94US-00240030.
95US-00437465.
96US-00643411.
96US-00721327.
97US-00850961.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABK49297 standard; DNA; 16 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-MAR-2001; 2001WO-JP002542.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-SEP-2000; 2000JP-00300724.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 GGCGCCAAACCTAAAC 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 81.2'
                                                                                                                                                                                                                                  Depolo NJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-340118/37
                                                                                                                                                                                   CORP.
                                                                                                                                                                                                                                                                              WPI; 2002-163181/21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Norwalk-like virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200229120-A1.
                                                                                                                                                                                (CHIR ) CHIRON
                                                                                                                                                                                                                                                                                                                                                                                                     recombination.
                                                                                                       26-SEP-1996;
05-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15-JUL-2002
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                                      09-MAY-1994;
09-MAY-1995;
                                                                                                                                                                                                                                  Respess JG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .1-APR-2002
                                                                                   06-MAY-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABK49297;
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ABK49297/c
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Gaps

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The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in multiwell plates numbered for discrimination are mixed in each of the multiwell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) a signal corresponding to the marker is defected from the resultant amplified product to specify the discrimination Nos. of the multiwell plates containing the clones having said marker sequence; (d) the order of the markers is changed so that the same discrimination Nos. succeed to plates; (e) the clones in the miltiwell plates of the specified discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the miltiwell plates of the specified discrimination Nos. succeed to constitute are maxed respectively in each wells of longitudinal resultant cultures are amplified products; (h) the clones in the miltiwell plates are specified from the detected result; and (i) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABL42957 to ABL45321 represent PCR primers for human chromosome 21q22.1, which are specifically claimed for the nromosome 21q22.1, which are specifically claimed for use in the present invention
resultant cultures are amplified by using the above primer, (g) signals are detected from the amplified products; (h) the clones in the multiwell plates are specified from the detected result, and (i) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABL42957 to ABL45322 represent FOR primers for human chromosome 1936-35 DNA, and ABL45323 to ABL45634 represent PCR primers for human chromosome 21q22.1, which are specifically claimed for use in the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human, chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;
                                                                                                                                                                                                                                  / Match 0.5%; Score 11.2; DB 1; Length 16; Local Similarity 81.2%; Pred. No. 8.76+02; les 13; Conservative 0; Mismatches 3: TnAale
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human chromosome 1p36-35 PCR primer SEQ ID NO:1692.
                                                                                                                                                                                                        Sequence 16 BP; 3 A; 6 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 4; Page 38; 528pp; Japanese.
                                                                                                                                                                                                                                                                                                                                        969 GTGGAAGTCCAAGCTC 984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABL44648 standard; DNA; 16 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-MAR-2001; 2001JP-00068285.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .0-MAR-2000; 2000JP-00066716.
                                                                                                                                                                                                                                                                                                                                                                                  1 Grecentechacere 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (RIKA ) RIKAGAKU KENKYUSHO.
(GENO-) GENOTEX YG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arraying genome clones.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
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ABL44648
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a cell
                                                                                                                                                                                                                                                                                                                                      Proliferation potential protein; P2P; hnRNP; Rb1; cell proliferation;
tumour suppression; cancer; antisense gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated proliferation potential protein nucleic acid and it's antisense sequence, for repressing the proliferative potential of \varepsilon
                                                                                                                                                                                                                                                                                                       Proliferation potential protein (P2P) antisense oligonucleotide #2
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81.2%; Pred. No. 8.7e+02;
ive 0; Mismatches 3; Indels
                         0.5%; Score 11.2; DB 1; Length 16;
31.2%; Pred. No. 8.7e+02;
Ive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 16 BP; 4 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
Sequence 16 BP; 3 A; 6 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 16; Page 6; 32pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (UYTE-) UNIV TENNESSEE RES CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABL94677 standard; DNA; 16 BP
                                                                                                                                                                                                            AAD33335 standard; DNA; 16 BP
                                                                                            969 GIGGAAGICCAAGCIC 984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   96US-0027568P.
97US-00801308.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16-MAR-2001; 2001US-00811045.
                                            ilarity 81.2%;
Conservative
                                                                                                                           Gregorariccaaccrc 16
                                                                                                                                                                                                                                                                            (first entry)
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                             Query Match
Best Local Similarity
Matches 13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                       US2002035080-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-SEP-1996;
18-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                        Unidentified
                                                                                                                                                                                                                                                                        01-JUL-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scott RE;
                                                                                                                                                                                                                                       AAD33335;
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                                                                                                                                                                             RESULT 1171
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Matches
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ID ABL9
XX
                                                                                                                                                                                              AAD33335
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ABL94677;

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The present invention relates the DNA and their encoded proteins, where the proteins contain at least one PYD (pyrin) domain. These can be used to treat diseases associated with impaired intracellular signal transduction, particularly inflammation such as psoriasis, arteriosclerosis, bacterial or viral infections (particularly meningitis and pneumonia), multiple sclerosis, rheumatoid arthritis, asthma, sarcoidosis, glomerulonephritis and osteoarthritis, and also Alzheimer's and Parkinson's diseases. The present sequence is a PCR primer used to isolate a coding sequence of the invention
                                                                                                                                                                                                                                                                                                 diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gene panel participating in liver regeneration, applicable in providing
                                                                                                                                                                                                                                                                                               New DNA encoding protein with pyrin domain, useful for treating diseases involving impaired signal transduction, particularly inflammation, also proteins and antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR, primer, ss; liver regeneration, gene panel; expression profile; drug screening; drug development; hepatitis; liver transplantation.
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81.2%; Pred. No. 8.7e+02;
.ive 0; Mismatches 3; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Liver regeneration-related gene panel PCR primer #52.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 16 BP; 2 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Takahara Y,
                                                                                                                                                                                                                                                                                                                                                                                    Example; Page 49; 116pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1073 TCAGTCCCACTCCAGG 1088
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                                                                                                                                                                              (APOT-) APOTECH RES & DEV LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-MAR-2002; 2002WO-JP002372.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-MAR-2001; 2001JP-00070940.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 rcagercecrecade 16
                                                                                                                 15-NOV-2000; 2000DE-01056687, 30-NOV-2000; 2000DE-01059595.
                                                                          30-OCT-2001; 2001WO-EP012545
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 81.2
Matches 13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-018922/01.
                                                                                                                                                                                                                         Ischopp J, Martinon
                                                                                                                                                                                                                                                              WPI; 2002-427093/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200277222-A1.
WO200240668-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unidentified.
                                                                                                                                         30-NOV-2000;
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                                       23-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yokoya F,
Sonaka I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABT13524;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention provides antisense sequences directed against the VRI mRNA. These can be used in the treatment of pain, especially chronic, heat-induced or inflammatory pain, tactile allodynia, urinary incontinence, neurogenic bladder symptoms, pruritis, tumours and inflammation (particularly where associated with the VRI vanilloid receptor such as asthma). They are also useful for identifying analgesic agents. The present sequence is a VRI antisense sequence identified in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pyrin domain; PYD domain; antiinflammatory; antiparkinsonian; antiarteriosclerotic; antipsoriatic; antibacterial; virucide; neuroprotective; antiarhritic; antirheumatic; antiaschmacic; nephrotropic; osteopathic; noctropic; intracellular signal transduction; inflammation; Alzheimer's diease; infection; psoriasis; asthma; arteriosclerosis; multiple sclerosis; rheumatoid arthritis; sarcoidosis; osteoarthritis; glomerulonephritis; PCR; primer; ss.
                                                                                                                                             vanilloid receptor; antipruritic; cytostatic; antiasthmatic; pruritis; gene therapy; tactile allodynia; urinary incontinence; inflammation; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antisense oligonucleotides and ribozymes, useful for treating e.g. pain and for diagnosis, are directed against mRNA for vanilloid-family
                                                                                                                         Analgesic; antisense; VR1; antiinflammatory; uropathic; pain; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pyrin domain containing protein coding sequence PCR primer JT1512
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.5%; Score 11.2; DB 1; Length 16; 81.2%; Pred. No. 8.7e+02; tive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seguence 16 BP; 2 A; 4 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                Human VR1 antisense oligonucleotide #65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1070 GCTTCAGTCCCACTCC 1085
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Fig 10; 76pp; German.
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                                                                                                                                                                                                                                                                                                                                                                       02-SEP-2000; 2000DE-01043674.
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                                           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                 (CHEF ) GRUENENTHAL GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kurreck J, Erdmann VA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-281058/32
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13; Conserv
                                                                                                                                                                                                                                                 WO200218407-A2
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                                                                                                                                                                                                            Homo sapiens.
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                                         12-JUN-2002
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receptors.

AAL47118;

RESULT 1173

Query Match Best Local &

Best Loca Matches

schultz451-1.rng

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The invention comprises a gene panel constructed from the expression profile of known genes which show a change in expression level between normal liver cells and liver cells under regeneration. The gene panel is useful for providing expression data and screening/development of drugs for liver regeneration (e.g. when treating hepatitis, after transplantation or removal of the liver during cancer or hepatitis
expression data, diagnosis and development of drugs for promoting liver regeneration e.g. after transplantation or removal of liver during
                                                                                                                                                                                                                                                                                        therapy). The present DNA sequence represents a PCR primer used in the invention
                                                                                                                                                                                                                                                                                                                                                              Sequence 16 BP; 4 A; 4 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                Claim 19; Page 60; 101pp; Japanese.
                                                   cancer
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Match 0.5%; Score 11.2; DB 1; Length 16; Local Similarity 81.2%; Pred. No. 8.7e+02; es 13; Conservative 0; Mismatches 3; Indels 745 ACCGIGIGCACCIGCC 760 16 AGCGTTTGAACCTGCC 1 Query Match Best Loca Matches

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Gaps

. 0

ABT13552 standard; DNA; 16 (first entry) 07-FEB-2003 ABT13552; RESULT 1175 ABT13552

BP.

Liver regeneration-related gene panel PCR primer #80.

PCR; primer; ss; liver regeneration; gene panel; expression profile; drug screening; drug development; hepatitis; liver transplantation.

Unidentified

WO200277222-A1.

03-OCT-2002.

13-MAR-2002; 2002WO-JP002372.

13-MAR-2001; 2001JP-00070940.

(AJIN) AJINOMOTO CO INC.

Takahara Y, Fukuda H, Okutsu T, Mori M, Yokoya F, Sonaka I;

Aburatani H;

WPI; 2003-018922/01.

Gene panel participating in liver regeneration, applicable in providing expression data, diagnosis and development of drugs for promoting liver regeneration e.g. after transplantation or removal of liver during

Claim 19; Page 67; 101pp; Japanese.

The invention comprises a gene panel constructed from the expression profile of known genes which show a change in expression level between normal liver cells and liver cells under regeneration. The gene panel is useful for providing expression data and screening/development of drugs for liver regeneration (e.g. when treating hepatitis, after transplantation or removal of the liver during cancer or hepatitis therapy). The present DNA sequence represents a PCR primer used in the nvention

Sequence 16 BP; 4 A; 4 C; 5 G; 3 T; 0 U; 0 Other;

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The invention relates to treating viral infection or reactivation comprising contacting an individual with an antagonist of the interaction between a Herpes Simplex virus (HSV) polymolectide sequence appearing as ADDO7153 and interferon regulatory factor-1 (IRF-1, a transcription factor of the interferon regulatory pathway). Also included are an esolated HSV polymolectide comprising ADD07153, a composition comprising a HSV polymopetide involved in viral infection or reactivation, screening for compounds capable of inhibiting specific binding of IRF-1 to a polymolected of compounds capable of inhibiting specific binding of IRF-1 to IRF-1; The IRF-BP (undefined) complex, a compound capable of agonising or antagonising any compound in IRF-1 and/or interferon genetic regulatory pathway and a composition for comprising an HSV IRF-1 confiction or reactivation caused by Herpes virus, e.g., HSV-1 or HSV-2 infection or reactivation caused by Herpes virus, e.g., HSV-1 or HSV-2 infection. The HSV polypeptide and polymolectides may also be useful as antivitied viral, variable of antivities and conficient and confidence represents an identified viral
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Herpes Simplex virus polynucleotide sequence and interferon
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                                                                                                                                                                                                                                                                                                                                 ds; interferon regulatory factor; IRF-1; IRF-2; herpes; antiviral; transcription factor; virucide; vaccine; interferon.
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 Length 16;
                                 3; Indels
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0.5%; Score 11.2; DB 1;
llarity 81.2%; Pred. No. 8.7e+02;
Conservative 0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; SEQ ID NO 7; 53pp; English.
                                                                                                                                                                                                                                                                                                 HSV-1 (17+) IRF-1 binding site #6.
                                                                                                                                                                                                                                                                                                                                                                                       Human herpesvirus 1; strain 17+.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SMIK ) SMITHKLINE BEECHAM CORP.
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                                                                                                      16 AGCGTTTGAACCTGCC 1
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                                                                     745 ACCGTGTGCACCTGCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antagonist of Herpes regulatory factor-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-801223/75.
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IRF-1 binding site
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                Local Similarity
nes 13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-NOV-1999;
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Matches
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The invention relates to a nucleic acid molecule which down regulates expression of a cD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NGGO). The nucleic acids and the constant of an endolytic nucleic acids (e.g. a ribozyme or a DNazyme) an Inozyme (an endolytic nucleic acid cleaving an RNA molecule possessing an NCH mocif), a G-cleaver (cleaving RNA with a NYM motif) prossessing an NCH mocif), a G-cleaver (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA with a YGY motif). The CD20-targetting nucleic acid as used to cleave RNA configuration the presence of a divalent cation that is preferably Mg^2+. Furthermore, it may be contacted with a cell to reduce CD20 activity of the cell and treat a partient having a condition associated with the level of CD20. The treatment may further comprise the use of one or more the cell and treat a partient having a condition associated with the level configuration associated with language to treat lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic lymphoma (MCL), immunocytoma (IMC), small B-cell lymphoma, immunocytoma (IMC), small B-cell lymphoma, immune thrombocytopaenia, and inflammatory arthropathy. The NOGO gene in the targetting nucleic acid as used to cleave RNA of the NOGO gene in the
                                                                                                                                                                                                     Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; muscular; CD20, neurite growth inhibitor gene; NOGO; hammerhead ribozyme; DNAzyme; inczyme; G-Cleaver; amberzyme; zinzyme; lymphoma; leukaemia; B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; MCL; immunodeficioncy virtus; HIY associated NHL; mantle-cell lymphoma; MCL; immunocytoma; INC; immune thrombocytogaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy:induced neuropathy; amyotrophic lateral sclerosis; ALS; Parkinson's disease; ataxia; Huntingcon's disease; Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and
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                    ABK01806 standard; RNA; 17 BP
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28-FEB-2000; 2000US-0185516P.
06-MAR-2000; 2000US-0187128P.
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(BLAT/) BLATT L.
                                                                                                               (first entry)
                                                                                                                                                               Human NOGO Zinzyme #128.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BLAT/) BLATT L.
(MCSW/) MCSWIGGEN J.
(CHOW/) CHOWRIRA B M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-607195/69.
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                                                                                                                 12-MAR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                    ABK01806;
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ABK01806
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presence of a divalent cation that is preferably Mg^2^+. Furthermore, the nucleic acid may be contacted with a cell to reduce NOGO activity of the cell and treat a patient having a condition associated with the level of NOGO. The treatment may further comprise the use of one or more therapies. In particular, the NOGO-targetting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), barkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob disease, muscular dystrophy, and/or other neurodegenerative disease states which respond to the modulation of NOGO expression. The present sequence is a zinzyme molecule of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to novel human zinc finger-containing proteins and their coding sequences: MD23, MD24, MD27, MD212, MD23 is encoded at chromosome 7922:1, MD24 is encoded at chromosome 6p21.3-22.2, MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MD23, MD24, MD27, or MD212, e.g. cancer or developmental disorders: The nucleic caids and proteins are also useful for disagnosing or monitoring a disease caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic acids can also be used as probes to detect and characterize gross
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cytostatic; immunostimulant; gene therapy; vaccine; human; zinc finger protein; MDZ3; MDZ4; MDZ1; chromosome 7q22.1; chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer; developmental disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7 or MDZ12, e.g. cancer.
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                                                                                                                                                                                                                                                                                                                        0.5%; Score 11.2; DB 1; Length 17; 68.8%; Pred. No. 1e+03; ive 2; Mismatches 3; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                1555 CTGGAGGACATCGAGG 1570
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Best Local Similarity 68.8
Matches 11, Conservative
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ADB04344
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1998 TTTAAATCAATCATGT 2013

16 TTTAAAACAATGAAGT

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BP.

ACA08321 standard; DNA; 17

ACA083

(first entry)

03-JUN-2003

ACA08321;

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alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are useful in constructing microarrays for measuring gene expression. The proteins are useful as therapeutic agents for gene therapy or as vaccines. The present sequence was used to illustrate the invention.
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enzymatic nucleic acid, H-Ras; N-Ras, HIV, cytostatic, anti-HIV,
anti-rheumatic, cancer, AIDS, ss.
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                                                                                                                                                   Sequence 17 BP; 4 A; 8 C; 2 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                        1135 ACCTCCAGCTCCACCT 1150
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06-JUN-2001; 2001US-0296249P.
10-SEP-2001; 2001US-0318471P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABZ60690 standard; RNA; 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-DEC-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABZ60690;
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The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFRS), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme configuration. The enzymein is an inozyme, zinzyme, G-cleaver or amberzyme configuration. The enzymein and second molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A.

(I) is useful for cleaving RNA comprising a sequence of REL-A gene, in the presence of a divalent carion, especially MG^2+. The enzymatic and anticesses nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer. The method involves use of other drug therapies such as monoclonal antibodies, REL-A-specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, gencitablee or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel enzymatic nucleic acid molecules which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases.
                                                                                                                                                                                                     lung cancer;
                                                                                                                                                                                       G-cleaver; nucrear actor; REL-A activity; breast cancer; lung cancer prostate cancer; lung cancer prostate cancer; lung cancer prostate cancer; lung cancer prostate cancer; lung cancer stomach cancer; bard cancer; lung cancer; stomach cancer; bardcardcancer; cervical cancer; had and neck cancer; ovarian cancer; melanoma; lymphoma; glioma; multidrug resistant cancer; REL-A-specific Inhibitor; chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphanide; doxorubin; fluorouracil carboplatin; edatrexate; gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes; renumatoid arthitis; restenosis; Crohn's disease; obesity; ischaemia; gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis; transplant/graft rejection; reperfusion injury; glomerulonephritis; allergic airway inflammation; inflammatory bowel disease; infection; ss.
                                                                                                                                                                             Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;
                                                                                                                                Necrosis factor kappa B (NFXB) sub-unit modulating DNAzyme #90.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mcswiggen J, Draper KG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 3; Page 48; 72pp; English.
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94US-00245466.
94US-00291932.
96US-00777916.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (STIN/) STINCHCOMB D
(MCSW/) MCSWIGGEN J.
(DRAP/) DRAPER K G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-340953/32.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07-DEC-1992;
18-MAY-1994;
15-AUG-1994;
23-DEC-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
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Gaps

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Query Match

0.5%; Score 11.2; DB 1; Length 17;
Best Local Similarity 81.2%; Pred. No. 1e+03;
Matches 13; Conservative 0; Mismatches 3; Indels

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obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, gene therapy applications, ischaemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents an enzymatic nucleic acid used to modulate the function of a necrosis factor kappa B sub-unit
   rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes
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Sequence 17 BP; 6 A; 5 C; 4 G; 0 T; 2 U; 0 Other;

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                             Gaps
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0
    DB 1; Length 17;
                             3; Indels
    0.5%; Score 11.2; DB 1
68.8%; Pred. No. 1e+03;
tive 2; Mismatches
Query Match
Best Local Similarity 68.8°
Marches 11; Conservative
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1951 ACAGTGCATAAGCAGT 1966

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RESULT 11: ABT34365/

ABT34365 standard; DNA; 17 BP.

ABT34365;

12-JUN-2003

(first entry)

Tumour suppression related human fukutin oligo SEQ ID No 2.

Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.

Homo sapiens

WO2003025175-A2.

27-MAR-2003

17-SEP-2002; 2002WO-IB004208

17-SEP-2001; 2001FR-00011978.

(MOLE-) MOLECULAR ENGINES

Tuijnder Telerman A, Amson R,

PI; 2003-313353/30.

Σ

New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.

Disclosure, Page 34; 720pp; French.

The invention relates to a novel isolated 17 mer nucleic acid sequence, given in the specification, a sequence containing at least 15 consecutive nucleocides from the 17 mer sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of a feet invention are useful as probes and primers for detecting, identifying quantifying and/or amplifying a nucleic acids of the invention are useful as probes and primers for detecting, identifying quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti) sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the mucleic acids, cells containing the preparation of plarmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Albreimer's disease and schizophrenia. Analysis of the expression of the I7 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these

The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras, human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breat, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ56889 - ABZ62216, ABZ65531, ABZ65520 - ABZ66524, ABZ66530 - ABZ66520 - ABZ66524, ribozymes of the invention

Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.

WPI; 2003-140484/13.

Claim 58; Page 131; 185pp; English

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Gaps

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0.5%; Score 11.2; DB 1; Length 17; llarity 81.2%; Pred. No. 1e+03; Conservative 0; Mismatches 3; Indels

Query Match Best Local Similarity Matches 13; Conserv

Sequence 17 BP; 3 A; 5 C; 6 G; 0 T; 3 U; 0 Other;

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diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression related human fukutin oligonucleotide of the invention
                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                   Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras; enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV; anti-rheumatic; cancer; AIDS; ss.
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                                                                                    0.5%; Score 11.2; DB 1; Length 17;
81.2%; Pred. No. 1e+03;
iive 0; Mismatches 3; Indels
                                                                 Sequence 17 BP; 2 A; 8 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                target #943.
                                                                                                                                   1513
                                                                                                                                                                                                                BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                       29-MAY-2001; 2001US-0294140P.
06-JUN-2001; 2001US-0296249P.
10-SEP-2001; 2001US-0318471P.
                                                                                                                                                         16 GAGGCCAAGGTGGATC 1
                                                                                                                                                                                                                ABZ62152 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                   1498 GAGGCCACGCTGGAGC
                                                                                      Query Match
Best Local Similarity 81.2
Matches 13; Conservative
                                                                                                                                                                                                                                                                                  Human H-Ras DNAzyme
                                                                                                                                                                                                                                                                                                                                                                         WO200297114-A2.
                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mcswiggen J;
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                                                                                                                                                                                           RESULT 1182
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Novel antisense compound targeted to nucleic acid molecule encoding tumor necrosis factor receptor 1 (TNFR1), useful for treating humans having disease associated with TNFR1 e.g. hepatitis, liver injury, liver cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to an antisense compound 8 to 30 nucleotides in length targeted to nucleic acid molecule encoding tumour necrosis factor receptor 1 (TNFR1), where the antisense compound inhibities expression of TNFR1 The antisense compound is useful for inhibiting the expression of TNFR1 in cells or tissues. The antisense compound is also useful for treating an animal (preferably human) having a disease or condition associated with TNFR1, e.g. a liver disease (such as hepatitis, or liver injury) or a hyperproliferative disorder such as cancer, by inhibiting the expression of TNFR1. The antisense compound is useful for diagnostics, therapeutics, prophylaxis and as research reagents and kits. This polymucleotide sequence represents a human oligonucleotide relating to the TNFR1 of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antisense compound; tumour necrosis factor receptor 1; liver disease; TNFR1; hepatitis; liver injury; hyperproliferative disorder; cancer; human; ds.
Antisense compound; tumour necrosis factor receptor 1; liver disease; TNFR1; hepatitis; liver injury; hyperproliferative disorder; cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zhang H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP.
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Best Local Similarity 81.2
Matches 13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ISIS-) ISIS PHARM INC
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                                                                                                                                      Homo sapiens
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                                                                                                                                                                                                                                                                  20-JUN-2002
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                                                                           human;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             necrosis factor receptor type 1; TNFR1; antisense; infection; nation; tumour formation; TNFR1; anticancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antisense inhibition of tumor necrosis factor type 1 expression for diagnosis, treatment and prevention of disease, particularly tumors
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human TNFR1 mRNA inhibiting antisense oligo ISIS# 18933.
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                                                                                                                                                                                                                                                                                                                                                                                                     31-MAR-2000 (first entry)
                                            GAGGACAGCGCCCACA
                                                                                                       17 GGGGTCAGCTCCCACA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-105333/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26-JUN-1998;
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Homo sapiens
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XEXEXEX

Dean NM

Zhang H,

Cowsert LM,

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Novel antisense compound targeted to nucleic acid molecule encoding tumor necrosis factor receptor 1 (TNFR1), useful for treating humans having disease associated with TNFR1 e.g. hepatitis, liver injury, liver cancer.
                                                                                            Example 18; Page 56; 121pp; English
        (ISIS-) ISIS PHARM INC
                                          WPI; 2002-583481/62,
                         BF,
                         Baker
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The invention relates to an antisense compound 8 to 30 nucleotides in length targeted to nucleic acid molecule encoding tumour necrosis factor receptor 1 (TNFRI), where the antisense compound inhibiting sexpression of TNFRI. The antisense compound is useful for inhibiting the expression of treating an animal (preferably human) having a disease or condition associated with TNFRI, ea liver disease (such as hepatition in luny) or a hyperproliferative disorder such as cancer, by inhibiting the expression of TNFRI. The antisense compound is useful for disponetics, therapeutics, prophylaxis and as research reagents and kits. This polymucleotide sequence represents a human oligonucleotide relating to the TNFRI of the invention Gaps , 0 0.5%; Score 11.2; DB 1; Length 18; 81.2%; Pred. No. 1.2e+03; vative 0; Mismatches 3; Indels Sequence 18 BP; 0 A; 4 C; 5 G; 9 T; 0 U; 0 Other; 889 GIGCIGIIGCCCCIGG 904 Grrcrerreredia Query Match
Best Local Similarity 81.2
Matches 13; Conservative

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INFR1 expression modulation related antisense oligo SEQ ID No 66. ВP ABT05036 standard; DNA; 18 (first entry) 11-OCT-2002 ABT05036; RESULT 1186 ABT05036 Db

Antisense compound; tumour necrosis factor receptor 1; liver disease; TNFR1; hepatitis; liver injury; hyperproliferative disorder; cancer; Dean NM; Zhang H, 22-OCT-2001; 2001WO-US051224. 24-OCT-2000; 2000US-00695451. Cowsert LM, (ISIS-) ISIS PHARM INC WO200248168-A1 Homo sapiens. 20-JUN-2002 Baker BF, human; ds.

Novel antisense compound targeted to nucleic acid molecule encoding tumor necrosis factor receptor 1 (TNPR1), useful for treating humans having disease associated with TNFR1 e.g. hepatitis, liver injury, liver cancer.

WPI; 2002-583481/62.

Example 10; Page 45; 121pp; English

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A method has been developed of defining a set of compounds that modulate the expression of a target nucleic acid (tNA) sequence via binding of the compounds with the tNA sequence. The method comprises generating of the library of virtual compounds in silico according to defined criteria, and evaluating in silico the binding of the virtual compounds with the tNA according to defined criteria. Also described are: (1) a method of defining a set of oligonucleotides (ONS) that modulate the expression of a tNA sequence via binding of the ONS with the tNA sequence comprising generating a library of virtual compounds in silico according to defined
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           used to
The invention relates to an antisense compound 8 to 30 nucleotides in length targeted to nucleic acid molecule encoding tumour necrosis factor receptor 1 (TMFM1), where the antisense compound inhibits expression of TMFM1. The antisense compound is useful for inhibiting the expression of treating an animal (preferably human) having a disease or condition associated with TMFM1. G., a liver disease (such as hepatitis, or liver injury) or a hyperproliferative disease (such as hepatitis, or liver injury) or a hyperproliferative disease (such as negatitis, or liver dismostics, therapeutics, prophylaxis and as research reagents and kits. This polymucleotide sequence represents a human oligonucleotide relating to the TMFR1 of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cellular inhibitor of apoptosis-2 phosphorothioate antisense oligo #29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying compounds which modulate expression of nucleic acids, provide compounds having defined physical, chemical or bioactive properties, e.g. antisense activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Brooks
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identification; genetic target; gene modulation; human; probe; antisense oligonucleotide; phosphorothioate; PCR primer; nucleotide sequence-based technology; antisense drug discovery;
                                                                                                                                                                                                                                                                                0.5%; Score 11.2; DB 1; Length 18; 81.2%; Pred. No. 1.2e+03; vative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sasmor HM,
                                                                                                                                                                                                                                                 Sequence 18 BP; 4 A; 1 C; 10 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Freier SM,
Vickers TA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 21; Page 101; 264pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cowsert LM, Baker BF, Mcneil J,
Ohasi C, Wyatt JR, Borchers AH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ41037 standard; DNA; 18 BP
                                                                                                                                                                                                                                                                                                                                                               301 CTGGAGCTGTTGGTGG 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0081483P.
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                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 81.2
Matches 13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  target validation; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-620446/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
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28-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ41037;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 1187
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AAD60507 standard; DNA; 18

AAD60507/ ID AAD6

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criteria, and evaluating in silico the binding of the virtual ONS with the LNA according to defined criteria; and (2) a method of defining a set of compounds that modulate he expression of a LNA sequence via binding of the compounds with the LNA. The methods can be used for the generation and identification of synthetic compounds having defined physical, chemical or bioactive properties. Information gathered from assays of such compounds is used to identify nucleic acid sequences that are tractable to a variety of nucleotide sequence-based technologies, e.g. antisense drug discovery and target validation. AAZ46852 to AAZ41220, and ANY52701 to AAX52706, represent sequences used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antisense compounds complementary to Cellular Inhibitor of Apoptosis-2 useful for e.g. diagnostics, therapeutics, and as research reagents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cellular Inhibitor of Apoptosis-2; antisense; diagnostic; therapeutic; c-IAP-2; prophylaxis; infection; inflammation; tumor formation; ss.
                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                         ;
                                                                                                                                                                                                                                                                / Match 0.5%; Score 11.2; DB 1; Length 18; Local Similarity 81.2%; Pred. No. 1.2e+03; nes 13; Conservative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human c-IAP-2 mRNA inhibiting antisense oligo ISIS #23440.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Seguence 18 BP; 0 A; 9 C; 0 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                Sequence 18 BP; 0 A; 9 C; 0 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ackermann EJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 15; Col 39; 33pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-00205144.
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                                                                                                                                                                                                                                                                                                                                               74 GAGAGGAGGGAGAGA 89
                                                                                                                                                                                                                                                                                                                                                                                  18 GGGAAGAGAGAGA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAZ22131 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-NOV-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cowsert LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-561046/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                03-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USS958771-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAZ22131;
                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 1188
                                                                                                                                                                                                                                                                                                             Matches
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The invention relates to antisense compounds targetted to a nucleic acid encoding human cellular inhibitor of apoptosis-2 (also known as c-IAP-2, apoptosis inhibitor 2, API-1, hIAP-1 and MIHC) to inhibit its expression. Antisense compounds of the invention are used to induce apoptosis in human cells or tissues to treat diseases or conditions associated with insufficient apoptosis. They are used to treat diseases or conditions associated with cancer or autoimmune diseases. The invention is also useful in antisense gene therapy. The present sequence is an antisense oligonucleotide targetted to human c-IAP-2 DNA
                                                                                                                                                                                                                                                  /note = "Phosphorothicate backbone; All cytidine residues are 5-methylcytidines"
                                                                                         Human, antisense; cellular inhibitor of apoptosis-2; c-IAP-2; cancer;
hyperproliferative condition; apoptosis inhibitor 2; autoimmune disease;
API-1; hIAP-1; MIHC; gene therapy; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense compound, preferably an oligonucleotide, for inhibiting expression of human Cellular Inhibitor of Apoptosis-2 in human cells or tissues, and for treating diseases, such as cancer or an autoimmune
                                                                                                                                                                                                                                                                                                                                                                                       /not\bar{e}= "2'-methoxyethyl (2'-MOE) nucleotides'
                                                                                                                                                                                                                                                                                                                              'note= "2'-methoxyethyl (2'-MOE) nucleotides'
                                                                Human c-IAP-2 antisense oligonucleotide #ISIS #23480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 16; Page 22; 34pp; English.
                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                /*tag= c
/mod base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-JUL-2002; 2002US-00197290.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-SEP-1999; 99WO-US022083.
04-OCT-2001; 2001US-00857299.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (BENN/) BENNETT C F. (ACKE/) ACKERMANN E (COWS/) COWSERT L M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-755119/71.
                                                                                                                                                                                                                                                                                                                                                                                                                      US2003083300-A1
                                                                                                                                                                                                     Key
modified_base
                                                                                                                                                                                                                                                                                                                                                  modified base
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                                                                                                                                                            Homo sapiens.
                                        18-DEC-2003
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                                                                                                                                                                          Synthetic.
             AAD60507;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disease.
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Gaps

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Score 11.2; DB 1; Length 18; Pred. No. 1.2e+03; 0; Mismatches 3; Indels

Query Match Best Local Similarity 81.2%; Matches 13; Conservative

Query Match Best Local S

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Matches

ò d RESULT 1190

AAA8594

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The present invention describes a method for treating a proliferative skin or eye disease and scarring. The method involves administering a cribozyme [1] which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle dependent kinase, growth factor or a reductase, or administering a nucleic acid molecule [11] comprising a promoter operably linked to a nucleic acid segment encoding [1]. [1] can have antipsoriatic, dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling, cophthalmological, vulnerary, keratolytic and virculed activities, and or gene therapy. [1] and [1] are useful for treating proliferative skin diseases such as psoriasis, atopto dermaticis, actinic keracosis, atopto dermaticis, actinic keracosis, atopto dermaticis, actinic keracosis, also be used for treating proliferative eye diseases such as diabetic also be used for treating proliferative eye diseases such as diabetic retinopathy, vitreoretinopathy, sickle cell retinogathy, introducting and viral or becompathy of prematurity and retinal detachment, and for treating and preventing correcting acting and preventing correcting and preventing correcting and preventing correcting and preventing correcting and represent sequences used in the
                              Human, ribozyme therapy; hairpin ribozyme; hammerhead ribozyme; recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferative disease; skin disease; proliferate; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; demaclological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keratolytic; gene therapy; virucide; atopic dermatilis; actinic keratosis; squamous cell carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent kinases.
                                                                                                                                                                                                   basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar; sickle cell retinopathy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.5%; Score 11.2; DB 1; Length 19; 11.2%; Pred. No. 1.3e+03; ve 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 19 BP; 0 A; 3 C; 5 G; 11 T; 0 U; 0 Other;
hs ribozyme binding site SEQ ID NO:3527.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81.2%; Pred. ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 328; 408pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1970 TITIGITITITE 1985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВР.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 0.5
Best Local Similarity 81.2
Matches 13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-300427/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                            WO200130362-A2.
                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Robbins JM,
                                                                                                                                                                                                                                                                                                                                                                                                      03-MAY-2001
                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABN86953
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    Cdc25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDKI, PCNA and Cyclin B1. Representative examples of ribozyme recognition sites are given in AAA88415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is efficient in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1, PCNA and Cyclin B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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81.2%; Pred. No. 1.3e+03;
ative 0; Mismatches 3; Indels
                                                  0.5%; Score 11.2; DB 1; Length 18;
81.2%; Pred. No. 1.2e+03;
/ative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 19 BP; 0 A; 3 C; 5 G; 11 T; 0 U; 0 Other;
         Sequence 18 BP; 0 A; 9 C; 0 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Robbins JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 100; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Cdc 25 hs ribozyme binding site #49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Barber JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH61103 standard; DNA; 19 BP
                                                                                                                                                                                                                                                                                                     ВР.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99WO-US028772.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rrrrcrrrrrrcrcrd 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-0110954P.
                                                                                                                                          74 GAGAGGAGGGAGAGA 89
                                                                                                                                                                                     18 GGGAAGAGAGAGA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                     AAA85941 standard; DNA; 19
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                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
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                                                                       1 Similarity 81.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   restenosis treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-412314/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tritz R, Welch PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200032765-A2.
                                                                                                                                                                                                                                                                                                                                                                                           04-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      08-JUN-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAH61103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                  AAA85941;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mammalia.
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Gaps ö

RESULT 1191

DP ð

AAH61103 ID AAH6 XX AC AAH6 XX DT 10-6

Best Loca Matches

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Sequence 20 BP; 7 A; 1 C; 10 G; 2 T; 0 U; 0 Other;
           Human NOV7 forward PCR primer SEQ ID NO:72.
                                                                                                                                                                                                                                                            Example 2; Page 205; 227pp; English.
                                                                                                                    16-OCT-2000; 2000US-0240625F.
16-OCT-2000; 2000US-0240648P.
16-OCT-2000; 2000US-0240664P.
16-OCT-2000; 2000US-0240665P.
16-OCT-2000; 2000US-0240669P.
16-OCT-2000; 2000US-0240669P.
                                                                                                    12-OCT-2001; 2001WO-US031922
                                                                                                                                                                   18-JAN-2001; 2001US-0262455P
29-JUL-2002 (first entry)
                                                                                                                                                                              CURAGEN CORP.
                                                                                                                                                                                                                     WPI; 2002-444172/47.
                                                                                                                                                                                   (MILL/) MILLET I.
                                                        PCR primer; ss.
                                                                              WO200230974-A2
                                                                    Homo sapiens.
                                                                                                                                                       16-OCT-2000;
                                                                                                                                                             16-OCT-2000;
                                                                                         18-APR-2002
                                                                                                                                                                              (CURA-)
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2000US-0240732P

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This is the nucleotide sequence of a primer termed 2565r. A set of primers (see AAZ19971-73 and AAZ19977-95) including 2565r was used in the PCR amplification and sequencing of genomic fragments of the human uncoupling protein 2 (UCP2) gene (see AAZ19967). The invention provides a method for identifying a subject having a risk of developing obesity and/or type II diabetes mellitus by detecting the presence of a single nucleotide polymorphism in UCP2 or UCP3 nucleic acid (see AAZ19967-70)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Use of uncoupled protein 2 or 3 as markers for identifying subjects at risk of developing obesity or diabetes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                   Gaps
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    UCP2; human; obesity; diabetes; diagnosis;
primer; ss.

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                              Length 20;
                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 6 A; 3 C; 8 G; 3 T; 0 U; 0 Other;
                           Score 11.2; DB 1;
Pred. No. 1.5e+03;
0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human uncoupling protein 2 gene primer 2565r.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 3; Page 72; 112pp; English.
                                                                              .;0
                                                                                                                                   1557 GGAGGACATCGAGGAG 1572
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                                                                                                                                                                                                                                                                                                                        BP
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                         0.5%;
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                                                                                                                                                                                     GGAGGAGCTGGAGGAG 18
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Query Match
Best Local Similarity 81.4.,
Conservative
13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (MUSC-) MUSC FOUND RES DEV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Garvey WT, Argyropoulos G;
                                                                                                                                                                                                                                                                                               1995/c
AAZ19995 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAL49614 standard; DNA; 21
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                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Uncoupling protein
gene therapy; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO9948905-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                          21-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-SEP-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAL49614;
                                                                                                                                                                                                                                                                                                                                                                        AAZ19995;
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                                                                                                                                                                                                                                                                   1193
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                                                                                                                                                                                                                                                                   RESULT 11
AAZ19995/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAL496
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes novel human proteins designated NOVX (where X is 1, 2a, 2b, 2c, 2d, 3, 4, 5, 6a, 6b, 7, 8, or 9). NOV1 is a tyrosine-protein kinase 6-like protein; NOV2a-d are keratin 4-like proteins; NOV3 is a collagen-like protein; NOV4 is a cystatin B-like protein; NOV5 is a serotonin receptor-like protein; NOV6 and NOV65v are cold inducible glycoprotein before surface antigen (CDS3)-like protein; NOV9 is a tyrosine kinase-like protein; NOV7 sequences and NOV65v are protein; NOV9 is a tyrosine kinase-like protein. NOVX sequences have cytostatic, antiatrariosclerotic, cardiovascular, antidiabetic, immunosuppressive and neuroprotective activities, and can be used in Gnee therapy. The NOVX sequences can be used in therapeutics, particularly a human. These disorders include cardiomyopathy, atheroselerosis, a disorder related to cell signal state in a subject, particularly a human. These disorders include cardiomyopathy, atheroselerosis, a disorder related to cell signal processing and metabolic pathway modulation or diabetes. The NOVX sequences are also useful for determining the presence of or predisposition to a disease associated with altered levels of NOVX sequences are also the presence of contragentics or nucleic acid particularly and the presence of contragentics or nucleic acid particularly cancer. The NOVX sequences are especially useful in therapeutic or prophylactic applications for neurological disorders, and in the treatment of
                                                                                                    Human, NOVX, cytostatic, antiarteriosclerotic, cardiovascular, lymphoma, antidiabetic, immunosuppressive, neuroprotective, gene therapy, cancer, cardiomypathy, atherosclerosis, cell signal processing, diabetes, AIDS, metabolic pathway modulation, neoplastic, neurological disorder, asthma, adenocarcinoma, prostate cancer, uterus cancer, immune response, crohn's disease, multiple sclerosis, Graft versus host disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Spytek KA;
Ellerman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  adenocarcinoma, lymphoma, prostate cancer, uterus cancer, immune response, AlDS, asthma, Crohn's disease, multiple solerosis or Graft versus host disease. The present sequence represents a PCR primer for human NOV7, which is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New NOVX polypeptides and polymucleotides, useful for treating or preventing a NOVX-associated disorder or a pathological state in a subject, particularly a human, e.g. cardiomyopathy, atherosclerosis, cancer or diabetes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Grosse WM, Alsobrook JP, Lepley DM, Burgess CE, Mishra V, Kekuda R, Li L, Padigaru M, Shimkets RA, Zerhusen BD, Spy Edinger S, Gerlach V, Macdougall J, Stone D, Gunther E, E
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Sequences shown in AAV55812 to AAV55827 represent primers used in the course of the invention for the multimerisation of minimal motifs. The invention provides a method for increasing the resistance of a core protein to proteolytic degradation that comprises linking or inserting onto or into the core protein a stabilising polypeptide of formula conto or into the core protein a stabilising polypeptide of formula conto or into the core protein a stabilising polypeptide of formula can be anything between 1-66. X, Y and Z need not be identical from n can be anything between 1-66. X, Y and Z need not be identical from n repeat to n repeat. Alternatively a nucleic acid encoding a stabilising core protein. The fusion proteins of the invention are more resistant to degradation by proteases and, thus, have a longer half-life than the core protein. The products can be used for treating autoimmune confusases, cancer and inflammation. In particular, the core protein may be used core protein for the treatment of inflammatory bowel disease, or a nitroreductase protein which can activate hitro drugs in canzyme/product thereat cancer or other pathological conditions. The fusion proteins can also be used in diagnostic methods such as in cyric imaging. (Updated on 27-AUG-2003 to correct OS field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Epstein-Barr virus; EBV; nuclear antigen; EBVNA1; antigenic protein; clycine-rich repeat sequence; immune system; regulatory protein; enzyme; cytokine; lymphokine; cell adhesion molecule; costimulatory molecule; drug resistance; tumour suppressant; genetic disease; viral disease; enzyme disorder; Gaucher's disease; cancer; immune system disorder; GRRS; gene therapy; minimal motif; ds.
                                                                                             New fusion proteins resistant to proteolytic degradation - comprising a core protein with a stabilising polypeptide comprising a peptide sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.5%; Score 11.2; DB 1; Length 24;
81.2%; Pred. No. 1.8e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3, Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 24 BP; 3 A; 14 C; 2 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "5' overhang"
complement(24)
/rag= horize= "5' overhang of TTCC"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Minimal motif coding sequence ZGS1/ZGS2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                         Disclosure, Page 72, 120pp, English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAT39967 standard; DNA; 24 BP.
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                                                                                                                                                 containing glycine repeats.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag= a
/note= "5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                al Similarity 81.2
13; Conservative
                                                          WPI; 1998-312463/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      misc_feature
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                  Masucci MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
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Best Local 8
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AAT39967
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to plasmic change agents with cell differentiation activity containing protein TL4. These can be used in the treatment, prevention and diagnosis of rhabdosarcoma, leiomyosarcoma, muscular dystrophy and uterine myeloma. The present sequence is a PCR primer used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Plasmic change agents and antibodies to them for diagnosis and treatment of tumours of muscle tissue and of muscular dystrophy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fusion protein; stabilising polypeptide; proteolytic degradation, resistance; half-life; autoimmune disease; inflammation, nitro drug; Ikappas regularor protein; inflammatory bowel disease; in vivo imaging; nitroreductase protein; enzyme therapy; produug therapy; protease; cancer; pathological condition; minimal motif; PCR primer; ss.
                       SS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
  Mouse, tumour differentiation, rhabdosarcoma, leiomyosarcoma, rat, s
muscular dystrophy, uterine myoma, cytostatic, plasmic change, TL4;
human, PCR; primer.
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0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.5%; Score 11.2; DB 1; Length 21;
81.2%; Pred. No. 1.6e+03;
tive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Multimerisation of minimal motifs using primer ZGE2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 1 A; 5 C; 6 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Page 127; 136pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                       Hikichi Y, Shintani Y, Matsui H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              889 GTGCTGTTGCCCTGG 904
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV55819 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                     23-FEB-2001; 2001JP-00049450.
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97US-0048945P.
                                                                                                                                                                                                                                             21-FEB-2002; 2002WO-JP001536.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTTCTGTTTCTCCTGG 19
                                                                                                                                                                                                                                                                                                                            (TAKE ) TAKEDA CHEM IND LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 81.2'
Matches 13, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human herpesvirus 4.
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                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-674894/72.
                                                                                                                                                        WO200266049-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-JUN-1997;
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                                                                                                            Unidentified.
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18-NOV-1998
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RESULT 1195 AAV55819/

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The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression ($AGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to prehermine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
                                                                                                                                    The invention relates to identifying (M1) genes in vitro that, in humans or animals, are important for skin ageing and/or skin stress by serial analysis of gene expression between mixtures of transcribed and optionally translated, genetically encoded factors (A) obtained from young and aged skin, to identify that genes that show strong differential useful for: identifying markers of skin ageing and/or stress; (M1) is useful for: identifying markers of skin ageing and/or stress; determining skin ageing and/or stress; and identifying or determining the effects of pharmacountical or comentic agents for control of skin ageing. The present sequence is one of a group of human skin ageing/stress related expressed sequence tags (ABQ87680) of the invention
Identifying genes involved in skin stress and aging, useful e.g. in screening for cosmetic or therapeutic agents, based on differential gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               In vitro identification of skin-expressed genes, useful for determining homeostagis and identifying cosmetic or pharmaceutical agents against e.g. skin cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.5%; Score 11; DB 1; Length 11;
100.0%; Pred. No. 3.1e+02;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 11 BP; 2 A; 2 C; 5 G; 2 T; 0 U; 0 Other;
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                                                                                                     Claim 8; Page 91; 325pp; German.
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Best Local Similarity 100.
Matches 11, Conservative
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                                 screening
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                                                                                                                                                                                                                                                                                                                          New proteins containing GRRS which are invisible to the immune system -
used for treating cancer, immune system disorders, viral diseases, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gabs
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                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Page 43; 61pp; English
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                                                      95SE-00001324.
95US-00522995.
95US-00529190.
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          96WO-GB000876
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                                                                                                                                                                                                                                                   WPI; 1996-477134/47.
P-PSDB; AAW05706.
                                                                                                                                                         (MASU/) MASUCCI M.
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                                                      10-APR-1995;
01-SEP-1995;
15-SEP-1995;
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          10-APR-1996;
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                                                                                                                                                                                                       Masucci M;
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ABQ87547/c
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The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression. (SAGE) so has to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to promotes skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis and to test agent (A) that maintains or ichthyosis; atopic dermatitis; sunburn, psoriasis, scleroderma; ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag (BST) of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               In vitro identification of skin-expressed genes, useful for determining homeostasis and identifying cosmetic or pharmaceutical agents against e.g. skin cancer.
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100.0%; Pred. No. 3.1e+02;
tive 0; Mismatches 0; Indels
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                                                                                                                                                                      ВР.
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                                                                                                                                                                      ABV64863 standard; cDNA; 11
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11 GCACCTGCCAT 1
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AAC ABV6, ABV6
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ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of skin. The present sequence is that of a human expressed sequence tag (EST) of the invention
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                                                                                                                                                                                                                                      Query Match 0.5%; Score 11; DB 1; Length 11; Best Local Similarity 100.0%; Pred. No. 3.1e+02; Matches 11; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                                      Sequence 11 BP; 3 A; 3 C; 5 G; 0 T; 0 U; 0 Other;
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The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes and quantify that maintains or promotes skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis and to take the sequence skin homeostasis or take can be used for treating skin disorders, specifically neurodermatitis, sunburn; psoriasis; scleroderma; inchthyosis, atopic dermatitis, acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag
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                                                                                                                                                                                                                                                                                                                                         In vitro identification of skin-expressed genes, useful for determining homeostasis and identifying cosmetic or pharmaceutical agents against e.g. skin cancer.
Human, skin, dermatological, vulnerary, antipsoriatic, antiseborrhaeic,
immunosuppressive, antiinflammatory, cytostatic, SAGB, neurodermatitis,
psoriasis, dermatitis, skin cancer, BST, expressed sequence tag, ss.
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                                                                                                        In vitro identification of skin-expressed genes, useful for determining homeostasis and identifying cosmetic or pharmaceutical agents against
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                                                                                                                                                                          Disclosure; Page 230; 1345pp; German.
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Matches 11; Conserva'
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Sequence 11 BP; 3 A; 1 C; 4 G; 3 T; 0 U; 0 Other;

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The invention relates to in vitro identification (MI) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression.

(MI) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn, psoriasis, scleroderma; ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea, melanoma, basal cell carcinoma, and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag (EST) of the invention
The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression (M1) is useful for identifying genes involved in skin homeostasis, to promotes skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin ichthyosis, specifically neurodermatitis; sunburn, psoriasis, scleroderma; ichthyosis; atopic dermatitis; acne; sebornhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag (EST) of the invention
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0.5%; Score 11; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 11; Conservative 0; Mismatches 0; Indels
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The invention relates to novel methods for the extraction of variable number tandem repeat (WNTR) alleles and utilising the alleles as genetic markers. One method comprises of making a mixture of VNTR alleles and their flanking regions from the genomic DNA of one or more members of a species of interest by: (i) ligating an adapter to genomic DNA fragments or that the 3' end of the adapter-terminated fragment is blocked to prevent chain extension; (ii) using the adapter-terminated fragments with adapter-primers and VNTR sense and antisense primers to generate 3' and 5'-flanking VNTR amplimers; and (iii) using the adaptimers as primers to extend on genomic DNA as the template and create the desired mixture of VNTR alleles and their flanking regions; The alleles generated by the methods can be used for genetic fingerprinting by gel electrophoresis or for other methods of genotyping individuals or selecting markers that segregate with specific traits. The present sequence represents an objective used to prepare an adapter used to exemplify a method of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Use of isolated variable number tandem repeat alleles and their flanking regions - for genetic fingerprinting or other methods of genotyping individuals.
                                                                                                                                                                                                                                                                                                                               Variable number tandem repeat; VNTR; allele; genetic marker; adapter; genetic fingerprinting; gel electrophoresis; genotyping; ss.
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ive 0; Mismatches 0; Indels
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iive 0; Mismatches 0;
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The present invention relates to inhibiting growth of human tumour cells, by administering an anti-neoplastic agent and a monoclonal antibody to a human cancer patient. The antibody binds to the extra-cellular domain of the human epidermal growth factor (BGP) receptor of the tumour cell and inhibits binding of EGF to it. It is not conjugated to the anti-neoplastic agent. The antibodies and anti-neoplastic agents are useful for inhibiting the growth of human tumour cells that express human EGF receptors and are mitogenically stimulated by human EGF in association with a pharmaceutical carrier. The invention combines two anti-cancer agents, each operating via a different mechanism of action to yield a cytotoxic response to human tumour cells. The present sequence is 5, end of coding region of immunoglobulin (Ig) 108VH (heavy chain variable
                                    Tumour; anti-neoplastic agent; monoclonal antibody; cancer; cytostatic;
extra-cellular domain; human epidermal growth factor; EGF receptor; Ig;
cytotoxic response; immunoglobulin; 108VH; heavy chain variable region;
human; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic oligonucleotide; dinucleotide repeat; cytostatic; apoptosis; cell cycle arrest; cell proliferation; caspase; cytokine; interleukin; tumour necrosis factor; TNF; cancer; carcinoma; sarcoma; leukemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Inhibition of growth of human tumor cell, involves administering anti-
neoplastic agent and monoclonal antibody to human cancer patient.
end of coding region of human 108VH expression vector construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.5%; Score 11; DB 1; Length 12;
100.0%; Pred. No. 4.1e+02;
ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Schlessinger J, Givol D, Bellot F, Kris R, Ricca GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seguence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RHON ) RHONE-POULENC RORER INT HOLDINGS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         region) expression vector construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 10D; Fig 8; 36pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    照.
                                                                                                                                                                                                                                                                                                                                   88US-00244737.
89US-00319109.
91US-00760852.
93US-00086411.
                                                                                                                                                                                                                                                                                          95US-00487761.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAH46047 standard; DNA; 12
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les 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          759 CCATGCAGGTT 769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 CCATGCAGGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-281047/29.
                                                                                                                                                                                                   US6217866-B1
                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                             07-JUN-1995;
                                                                                                                                                                                                                                                                                                                               15-SEP-1988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           lymphoma; ss
                                                                                                                                                                                                                                                                                                                                                              03-MAR-1989;
17-SEP-1991;
                                                                                                                                                                                                                                                                                                                                                                                                          29-JUN-1993;
                                                                                                                                                                                                                                                 17-APR-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      South VJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 1208
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes oligomucleotides (I) of 10-15 residues corresponding to a part of a vascular endothelial growth factor (VEGF) comprising 1 of 6 sequences given in AAA06692 to AAA06693. AAA06693 to AAA06783 represent VEGF antisense oligomucleotides used in the exemplification of the present invention. The antisense oligomucleotides can contain phosphorothicate linkages. Oligomucleotides from the present invention have eyrostatic and anafogenic activities, and can be used in gene therapy. The oligomucleotides are useful for inhibiting the expression of VEGF, e.g. for the treatment of diseases associated with anaforgenesis, neovascularisation, tumour cell growth and/or metastasis. AAA06784 represents a human VEGF nucleotide sequence from which the oligomucleotides are derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel oligonucleotides corresponding to a part of a vascular endothelial growth factor, useful for treating e.g. tumor cell growth and/or
                                                                                                                                                                                                                                          Human; vascular endothelial growth factor; VEGF; phosphorothioate; antisense oligonucleotide; inhibition; cytostatic; angiogenic; gene therapy; abnormal vascular permeability; cell proliferation; cell permeation; angiogenesis; neovascularisation; tumour cell growth;
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                                                                                                                                                                                                 VEGF derived short antisense oligonucleotide SEQ ID NO:72.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ulhmann E, Peyman A, Bitonti AJ, Woessner RD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (HMRI ) HOECHST MARION ROUSSEL DEUT GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Page 17; 73pp; English.
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                                                              AAA06763 standard; DNA; 12 BP.
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                                                                                                                                                     05-JUN-2000 (first entry)
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                                                                                                                                                                                                                                                                                                                                        metastasis; ss
                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-AUG-1998;
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Query Match Best Local S Matches 11

AAD04023;

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RESULT 12 AAD04023

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caspases

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABF99999, ABH00010-ABH99999 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oligonucleotide primer SEQ ID NO 291807 for detecting SNP TSC0014939.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              oer or oligonucleotides, useful for diagnosis and cell typing, i
designed to detect single-nucleotide polymorphisms and cytosine
methylation status.
                                                                                                                                                      Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                                                                                                                                                     Claim 1; SEQ ID NO 327640; 29pp + Sequence Listing; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.5%; Score 11; DB 1; Length 12; 100.0%; Pred. No. 4.10+02; ive 0; Mismatches 0; Indels
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                                                                   Berlin K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABH91814 standard; DNA; 12 BP.
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Best Local Similarity 100.
Matches 11; Conservative
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                                                                   Piepenbrock C,
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                    (EPIG-) EPIGENOMICS AG.
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                                                                                                         WPI; 2001-657177/75
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                                                              olek A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 1210
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is that of a synthetic oligonucleotide useful to the invention. The invention relates to a composition, comprises multiple to base 3.-04, 5.-04 synthetic oligonucleotide which comprises multiple repeats of dinucleotides such as GT. TG, etc., according to specific formula and having cytostatic activity. The oligonucleotide compositions are useful for induction activity. The oligonucleotide compositions are useful for induction of apoptosis or production of activation of caspases and induction of apoptosis or production of activation of caspases and induction of apoptosis or production of ortivotines such as interleukin (IL)-1.beta, IL-6, IL-10, IL-12 and tumour necrosis factor (ITMS) alpha by immune system cells, in an animal having and secondary sarcoma such as, leukemia, lymphoma, breast, prostate, colorectal, ovarian or bone cancer. The compositions induce apoptosis is independent of Fas, 32/p21, p21/waf-1/CIP, p15(ink4B), p16(ink4), drug resistance, caspase 3, transforming growth factor (TGF)-beta 1 receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                         Composition comprising synthetic oligonucleotides which comprise multiple repeats of dinucleotides such as GT, TG useful for treating cancer by inducing cell cycle arrest, inhibiting proliferation, activating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 11; DB 1; Length 12;
Pred. No. 4.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Indels
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100.0%; Pred. No. 4.-...
0; Mismatches
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                                                                                                                                                                                                                                 (BION-) BIONICHE LIFE SCI INC.
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                                                                                                              L2-DEC-2000; 2000WO-CA001467
                                                                                                                                                           13-DEC-1999; 99US-0170325P
29-AUG-2000; 2000US-0228925P
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                                                                                                                                                                                                                                                                                                                            WPI; 2001-398150/42.
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                         WO200144465-A2.
                                                                                                                                                                                                                                                                              Phillips NC,
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ABI27667;

RESULT 1209

AB127667

Query Match Best Local 8

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Length 12;

0.5%; Score 11; DB 1; Length 12; 100.0%; Pred. No. 4.1e+02; iive 0; Mismatches 0; Indels

1091 TCACCCCCACC 1101

TCACCCCCACC 12

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11; Conservative

Matches

Local Similarity

Query Match

Sequence 12 BP; 2 A; 9 C; 0 G; 1 T; 0 U; 0 Other;

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 tapeses the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Oligonucleotide primer SEQ ID NO 345534 for detecting SNP TSC0044077.
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                                                                                                                                                                                                                              Query Match 0.5%; Score 11; DB 1; Length 12; Best Local Similarity 100.0%; Pred. No. 4.1e+02; Matches 11; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                     Sequence 12 BP; 2 A; 5 C; 0 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Berlin K;
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                                                                                                                                                                                                                                                                                                                                                                                                        AB145561 standard; DNA; 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-FEB-2002 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Olek A, Piepenbrock C,
                                                                                                                                                                                                                                                                                                                            2 Trarcccrccr 12
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

WO200177384-A2.

Homo sapiens

Oligonucleotide primer SEQ ID NO 275485 for detecting SNP TSC0003907.

ABH75494/c ID ABH75494 standard; DNA; 12 BP.

RESULT 1212

22-FEB-2002 (first entry)

ABH75494;

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100.0%; Pred. No. 4.1e+02;
tive 0; Mismatches 0; Indels
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABB9989, ABF00010-ABB9989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence was obtained in electronic format from WIPO at the printed specification, but the wipo.int/pub/published_pct_sequences

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1; SEQ ID NO 345534; 29pp + Sequence Listing; German.

RESULT 1213 ABI08662

Tue Mar

ABI08662;

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, contral nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC09989, ABF00010-ABF9989, ABF00010-ABF9989, ABF00010-ABF9989, ABF00010-ABF9989, ABF00010-ABF9989, ABF00010-ABF9989, and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at the printed specification, but from wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                             Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; SEQ ID NO 291077; 29pp + Sequence Listing; German.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI87073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                            Oligonuclectide primer SEQ ID NO 308635 for detecting SNP TSC0023137.
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  ABI08662 standard; DNA; 12
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ABH91084;

RESULT 1214 ABH91084/c

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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                           This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABF9989, ABF00010-ABF9989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                             designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                           Claim 1; SEQ ID NO 353221; 29pp + Sequence Listing; German.
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100.0%; Pred. No. 4.1.
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central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABF000010-ABF9989, ABF000010-ABF9989, ABF000010-ABF9989, ABF000010-ABF9989, AB
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                                                                                                                                                                                                                                               SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                  Oligonucleotide primer SEQ ID NO 280405 for detecting SNP TSC0008575.
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1201 CCACCCTATCA 1211
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytoslie methylation status in chemically pretreated genomic DNA. The oligomuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and merabolik disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE09989, ABF00010-ABE99989, ABF00010-ABE99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but typ.wipo.int/pub/published_pct_sequence
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                                           SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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             Oligonucleotide primer SEQ ID NO 320936 for detecting SNP TSC0029979.
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cive 0; Mismatches 0; Indels
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                                                                                                                                                                           This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99899, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                  Piepenbrock C,
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically precreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABH00010-ABF9989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but
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                                                         This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE09989, ABF00010-ABE9989, ABF00010-ABE99989, ABH00010-ABE99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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Claim 1; SEQ ID NO 348705; 29pp + Sequence Listing; German.
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nes 11; Conservative
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Query Match

Best Local Matches

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically prereated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99899, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 tepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fix. wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                           Oligonucleotide primer SEQ ID NO 363471 for detecting SNP TSC0053873.
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0.5%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 4.1e+02;
Matches 11; Conservative 0; Mismatches 0; Indels
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                                                                    ABI63498 standard; DNA; 12 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genemic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99889, ABF00010-ABF99989, ABH0010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                       Sequence 12 BP; 2 A; 9 C; 0 G; 1 T; 0 U; 0 Other;
was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences
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Best Local Similarity 100.0
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WO200177384-A2. Homo sapiens.

ABI61761;

RESULT 1223 ABI61761 18-OCT-2001

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99899, ABF00010-ABF99899, ABH00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
central nervous system; gastrointestinal; respiratory; immune; metabolic.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                           Claim 1; SEQ ID NO 297620; 29pp + Sequence Listing; German.
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            Olek A, Piepenbrock C,
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                                                                                            designed to detect amethylation status.
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The coligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The coligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI32073 tepsesment the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastroinfestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010 ABC9989, ABF0010-ABF9989, ABF0010-ABF9989, ABF0010-ABF9989, ABF0010-ABF9989 and ABI0010-ABI82073 arepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but two obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 4.1e+02;
Matches 11; Conservative 0; Mismatches 0; Indels
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Etp.wipo.int/pub/published_pct_sequences
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ABI67672
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Length 12;
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Matches 11, Conservative
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH0010-ABF99989, ABH0010-ABF99989 and ABI00110-ABI32073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC09989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                            Oligonucleotide primer SEQ ID NO 326738 for detecting SNP TSC0033256.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genemic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and range of diseases including immune system, gastrointestinal, respiratory, contral nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99999, ABF00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                  Claim 1; SEQ ID NO 348541; 29pp + Sequence Listing; German.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligoners for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretracted genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. Abconggo

Claim 1; SEQ ID NO 297995; 29pp + Sequence Listing; German.

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-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTR: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at the printed specification, the ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                          Oligonucleotide primer SEQ ID NO 380268 for detecting SNP TSC0010746.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; SEQ ID NO 380268; 29pp + Sequence Listing; German.
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                                                                              ABI80295 standard; DNA; 12 BP.
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Best Local Similarity
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SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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100.0%; Pred. No. 4.1e+02;
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Length 12; 0; Indels

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic formmat from WIPO at
           This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting call type differentiation. ABC0010-ABC9989, ABC0010-ABF9989, ABC0010-ABF9989, ABC0010-ABF9989, ABC0010-ABF9989 and ABI0010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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iive 0; Mismatches 0;
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designed to detect single-nucleotide polymorphisms and cytosine
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                                                                                                                                                                                                                                                            Claim 1; SEQ ID NO 360852; 29pp + Sequence Listing; German.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The coingomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but they wipo, int/pub/published_pct_sequences
                                                                                                                                                                                                                   peptide nucleic acid, cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
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                                                                                                                                                                                                SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
                                                                                                                                                    Oligonucleotide primer SEQ ID NO 274931 for detecting SNP TSC0003733.
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100.0%; Pred. No. 4.1e+02;
ive 0; Mismatches 0; Indels
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                   ABH74944 standard; DNA; 12 BP.
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                                                                                                         (first entry)
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Best Local Similarity 100.0
Matches 11, Conservative
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                                                              ABH74944;
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4BH74944/C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligoners for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligoners are also used for detecting cell type differentiation. ABC00010-ABE99989, ABF00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SNP; single nuclectide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardicvascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                           Oligonucleotide primer SEQ ID NO 314452 for detecting SNP TSC0026372.
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                                                       Score 11; DB 1; Length 12;
Pred. No. 4.1e+02;
0; Mismatches 0; Indels
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            Sequence 12 BP; 3 A; 7 C; 0 G; 2 T; 0 U; 0 Other;
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                                                    Query Match 0.5%; Sco
Best Local Similarity 100.0%; Pr
Matches 11; Conservative 0;
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Gaps

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RESULT 1241

Best Loca Matches

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Homo sapiens.

18-OCT-2001

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99999, ABF00010-ABF99999, ABH00010-ABF99999 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                    Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                                                  Claim 1; SEQ ID NO 379202; 29pp + Sequence Listing; German
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Pred. No. 4.1e+02;
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Best Local Similarity 100.
Matches 11, Conservative
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                WPI; 2001-657177/75
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ABI20399
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Pred. No. 4.1e+02;
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Best Local Similarity 100.
...rhes 11; Conservative
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methylation status.
                                           WO200177384-A2
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range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00100-ABF99989, ABF00010-ABF99989, ABF00010-ABF99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but ftp.vipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Score 11; DB 1; Length 12; Pred. No. 4.1e+02;

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Query Match Best Local Similarity

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE99999, ABF00010-ABE99999, ABF00010-ABE99999 and ABI00010-ABE82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oligonucleotide primer SEQ ID NO 307427 for detecting SNP TSC0022492.
   Gaps
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   Mismatches
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ABI07454 standard; DNA; 12
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Matches 11; Conservative
   Matches 11; Conservative
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Berlin K;

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PMA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, aardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE99989, ABF00010-ABE99989, ABF00010-ABE99989, ABF00010-ABE99989, and ABI00010-ABE82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                               Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; SEQ ID NO 308634; 29pp + Sequence Listing; German.
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                              06-APR-2001; 2001WO-IB000713
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                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                       Oligonucleotide primer SEQ ID NO 331048 for detecting SNP TSC0035936.
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   22-FEB-2002
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                             Gaps
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designed to detect single-nucleotide polymorphisms and cytosine
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Query Match 0.5
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Matches 11, Conservative
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

WO200177384-A2 Homo sapiens

18-OCT-2001

Oligonucleotide primer SEQ ID NO 308634 for detecting SNP TSC0023137.

(first entry)

22-FEB-2002

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ABI08661;

ABI08661 standard; DNA; 12 BP.

RESULT 1248 ABI08661

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printed specification, but

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RESULT 12
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                                                       This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genemic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers system, cardiovascular and metabolic disorders. The checking cell type differentiation. ABC0010-ABE099989, ABF00010-ABE99989, ABH0010-ABE99989 and ABI0010-ABE99989. represent the oligomers described in the invention. NOTE: The sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                           Claim 1; SEQ ID NO 329697; 29pp + Sequence Listing; German.
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100.0%; Pred. No. 4.1e+02;
tive 0; Mismatches 0; Indels
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The present invention relates to a method for identifying a microorganism

CC by performing gel electrophoresis of random PCR amplicons in the presence

CC standard DNA. The method comprises the production of several double-

CC stranded DNA fragments by random PCR, using at least part of the genome

CC stranded DNA fragments by random PCR, using at least part of the genome

CC of the test organism as template, and their separation by temperature-

CC dentification dots are obtained for each DNA PCR fragment and a pattern

CC similarity score (PaSS) and/or genomic semi-distances are determined for

CC similarity score (PaSS) and/or genomic semi-distances are determined for

CC similarity score (PaSS) and/or genomic semi-distances are determined for

CC similarity score (PaSS) and/or genomic semi-distances are determined for

CC similarity score (PaSS) and/or genomic semi-distances are determined for

CC similarity score (PaSS) and/or genomic semi-distances are determined for

CC identification dots is determined from its position relative to the

CC standard. The method is useful to identify the species of a microorganism

CC standard. The method is more accurate than methods based on

CC phenotype or analysis of 16S rRNA sequences, but simpler and more

CC practical than (Whole) genome comparisons. The use of standard DNA allows

CC normalisation of the melting starting point, the slowest dot and the

CC represent PCR primers used to generate double stranded DNA fragments by

CC represent PCR primers used to generate double stranded DNA fragments by

CC represent PCR primers used the present invention
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polymerase chain reaction amplicons in presence of standard DNA and image
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identification of microorganism; denaturing-gradient gel electrophoresis; temperature-gradient gel electrophoresis; TGGE; DGGE; PaSS; pattern similarity score; genomic semi-distance; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                Gaps
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                                                                                                                                                                        Sequence 12 BP; 1 A; 0 C; 6 G; 5 T; 0 U; 0 Other;
data for this patent did not form part of the pass obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences
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Best Local Similarity 100.
Matches 11; Conservative
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(first entry)

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21-FEB-2002
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                ABF16913;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                                                                                                                                                                                         SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                              Oligonuclectide SEQ ID NO 23661 for detecting SNP TSC0005199.
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14.6%; Pred. No. 5.3e+02;
ve 1; Mismatches 1; Indels
                ch 0.5%; Score 11; DB 1; Length 12; 1 Similarity 100.0%; Pred. No. 4.1e+02; 11; Conservative 0; Mismatches 0; Indels
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Best Local Similarity 84.6%;
Matches 11; Conservative
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ABF16913
ID ABF16913 standard; DNA; 13
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                                                                                1059 CCCAAACCCAA 1069
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                                                                                                          CCCAAACCCAA 2
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                      Query Match
Best Local Similarity
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                                    Best Loca
Matches
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ABC23644/0
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a radge of diseases including immune system, gastrointestinal respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99999, ABF00010-ABF99999, ABH00010-ABH99999 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but two obtained in electronic format from WIPO at
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                                                             SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; 8s; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Oligonuclectide SEQ ID NO 116910 for detecting SNP TSC0029263.
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Pred. No. 5.3e+02;
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Best Local Similarity 84.6*;
Matches 11; Conservative
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                                                                                                                                                                                                      This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABE99989, ABF00010-ABE99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Best Local Similarity 100.
Matches 11, Conservative
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ABF24107/c
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The
                                                                                                                                                                                                                      This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically prereated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and merabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at the printed specification, but the wipo.int/pub/published_pct_sequences
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Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                                                     Claim 1; SEQ ID NO 124104; 29pp + Sequence Listing; German
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100.0%; Pred. No. 5.3e+02;
iive 0; Mismatches 0; Indels
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1254 CATCCCCAACC 1264

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010 ABC99999, ABF0010-ABF99999, ABH0010-ABH99999 and ABI00010-ABI32073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABF99889, ABH00010-ABH9989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fire wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                          Query Match

0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 5.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                       Sequence 13 BP; 5 A; 6 C; 0 G; 2 T; 0 U; 0 Other;
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metebolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABF00010-ABF99989, ABF00010-ABF99989, and ABI00010-ABF8003 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo int/pub/published_pct_sequences
                                                                                                                                                                                                                           SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                         Oligonucleotide SEQ ID NO 196105 for detecting SNP TSC0048263.
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                                                                                    ABF96108 standard; DNA; 13 BP.
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Best Local Similarity 100."
Matches 11, Conservative
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                                               RESULT 1258
ABF96108
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ABF96109/c
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and merabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic formmat from WIPO at
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                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID NO 227676; 29pp + Sequence Listing; German.
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100.0%; Pred. No. 5.3e+02;
tive 0; Mismatches 0; Indels
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Matches 11, Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABE99989, ABF00010-ABE99989, ABH00010-ABE99989 and ABI00010-ABE82073 teprement the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                           SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Oligonucleotide SEQ ID NO 195106 for detecting SNP TSC0048263.
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100.0%; Pred. No. 5.3e+02;
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RESULT 1260

ABH27699

Matches

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Sequence 13 BP; 4 A; 5 C; 0 G; 4 T; 0 U; 0 Other;

ftp.wipo.int/pub/published_pct_sequences

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABH99989 and ABI00010-ABH82073 tepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but fftp.wipo.int/pub/published_pct_sequences
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Claim 1; SEQ ID NO 178019; 29pp + Sequence Listing; German.
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                                                                                                                                                                                                                                                                                                                                                   SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Score 11; DB 1; Length 13;
Pred. No. 5.3e+02;
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100.0%; Pred. No. 5.3e+02;
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0.5%; Score 11; DB:
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Matches 11; Conserv:
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Homo sapiens.
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                                                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                             Oligonucleotide SEQ ID NO 116439 for detecting SNP TSC0029146.
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                              ABF16442 standard; DNA; 13 BP.
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es 11; Conservative
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosline methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE9989, ABF00010-ABF9989, ABH0010-ABH99999 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but fur witpo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosie; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                       Claim 1; SEQ ID NO 197140; 29pp + Sequence Listing; German.
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 Berlin K;
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oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic forms from WIPO at finted specification, but fit wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; pebtide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11; DB 1; Length 13;

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The

Claim 1; SEQ ID NO 231048; 29pp + Sequence Listing; German.

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Oligonucleotide SEQ ID NO 190457 for detecting SNP TSC0000398.
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               22-FEB-2002 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from MIPO at
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                                                                                                                                                                                                                                                                                                SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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100.0%; Pred. No. 5.3e+02;
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   100.0%; Pred. No. 5.3e+02; Ative 0; Mismatches 0; Indels
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                    11; Conservative
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     Best Local Similarity
Matches 11; Conserv
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Homo sapiens.
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nes 11; Conservative 0; Mismatches
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central herrous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 aABC00010 ABF99989, ABF00010-ABF99989 and ABI00010-ABF82073
                                                                                                                                                                                                     This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, aardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE99989, ABF00010-ABE99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                                  Claim 1; SEQ ID NO 46726; 29pp + Sequence Listing; German.
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100.0%; Pred. No. 5.3e+02;
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ive 0; Mismatches
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hes 11; Conservative
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SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                                     Oligonucleotide SEQ ID NO 186797 for detecting SNP TSC0046048.
                                                                                                                              (first entry)
                                                                    ABF86800 standard; DNA;
13 GAGAATGTTAA
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represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences
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100.0%; Pred. No. 5.3e+02;
ive 0; Mismatches 0; Indels
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100.0%; Pred. No. 5.3e+02;
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Matches 11; Conservative
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99899, ABF00010-ABF99899 ABH00010-ABF99899 and ABH00010-ABF82073 data for this patent did not form part of the printed specification, but the wipo.int/pub/published_pct_sequences
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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84.6%; Pred. No. 5.3e+02;
ative 1; Mismatches 1; Indels
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Matches 11; Conservative
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF9989, ABH00010-ABF9989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic formmat from WIPO at
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designed to detect single-nucleotide polymorphisms and cytosine
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100.0%; Pred. No. 5.3e+02;
iive 0; Mismatches 0; Indels
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Sequence 13 BP; 1 A; 0 C; 3 G; 8 T; 0 U; 1 Other;

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically prereated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC09989, ABC0010-ABE9989, ABC0010-ABE9989, ABC0010-ABE9989, and ABI00010-ABE9998, represent the oligomers described in the invention. NOTE: The sequence and for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The coligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fig. wipo.int/pub/published_pct_sequences
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84.6%; Pred. No. 5.3e+02;
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                                                                                                                                                                                                                                                                                                SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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100.0%; Pred. No. 5.3e+02;
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0.5%; Score 11; DB 1;
84.6%; Pred. No. 5.3e+02
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Matches 11, Conservative
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RESULT 1281

ABC91351

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cantral nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABE99999, ABF00010-ABE99999, ABF00010-ABE99999, ABF00010-ABE99999, ABF00010-ABE99999 and ABI00010-ABE82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                 Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; SEQ ID NO 67013; 29pp + Sequence Listing; German.
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                                                                                                                                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                  Oligonucleotide SEQ ID NO 91368 for detecting SNP TSC0022885.
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ABC91351 standard; DNA; 13
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                         Match 0.5%; Score 11; DB 1; Length 13;
Local Similarity 100.0%; Pred. No. 5.3e+02;
tes 11; Conservative 0; Mismatches 0; Indels
Sequence 13 BP; 3 A; 0 C; 6 G; 4 T; 0 U; 0 Other;
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ABC72133;
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                                                                                                This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                        Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                          Claim 1; SEQ ID NO 219468; 29pp + Sequence Listing; German.
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100.0%; Pred. No. 5.3e+02;
cive 0; Mismatches 0; Indels
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central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABCC0010-ABC9989, ABF001010-ABF99989, ABF001010-ABF99989, ABF001010-ABF99989 and ABF00010-ABF99793 represent the coligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at figure int/pub/published_pct_sequences
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 5.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels
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iive 0; Mismatches 0;
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                                                                                                                              Oligonucleotide SEQ ID NO 110329 for detecting SNP TSC0027559.
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                                                                     ABF10332 standard; DNA, 13 BP
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es 11; Conserv
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ABC39943 standard; DNA; 13

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ABC39943;

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                                     SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; Ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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         Oligonucleotide SEQ ID NO 39960 for detecting SNP TSC0012178.
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100.0%; Pred. No. 5.3e+02;
tive 0; Mismatches 0; Indels
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Best Local Similarity 100.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                      Claim 1; SEQ ID NO 126369; 29pp + Sequence Listing; German.
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44.6%; Pred. No. 5.3e+02;
ve 1; Mismatches 1; Indels
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06-APR-2001; 2001WO-IB000713.
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ABF73362;

RESULT 1291 ABF73362

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically prereated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The coligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from NIPO at
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                                                                                                                                                                                                                                                   SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
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                                                                                                                                                                                                          Oligonucleotide SEQ ID NO 173360 for detecting SNP TSC0043189.
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          RESULT 1293
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was obtained in electronic format from WIPO at
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central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11; DB 1; Length 13;

Best Local Similarity 100.0%; Pred. No. 5.3e+02;

Matches 11; Conservative 0; Mismatches 0; Indels
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC09989, ABF00010-ABF99989, ABF00010-ABF99989, ABF00010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but typuploulished_pot_sequences
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uer or origonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and oytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, asrdowascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99889, ABH00010-ABF99899 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligoners are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF0010-ABF99899, ABF00010-ABF99899, ABF0010-ABF98999 and ABI0010-ABF882073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 5.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                   SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 5.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels
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Score 11; DB 1; 1 Pred. No. 5.3e+02;
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                                                                 1062 AAACCCAAGCTTC 1074
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ABF27286 standard; DNA; 13
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Ouery Match
Best Local Similarity 84.6'
Matches 11; Conservative
                                                                                            13 RAACCCAAACTIC 1
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABR00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from MIPO at
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                                                                                                                                                                                                                                                                     Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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100.0%; Pred. No. 5.3e+02;
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Best Local Similarity 100.0%; Pred. No. 5.3
Matches 11; Conservative 0; Mismatches
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                                                                                                                           SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                         Oligonucleotide SEQ ID NO 195510 for detecting SNP TSC0048102.
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                                              22-FEB-2002 (first entry)
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RESULT 1299

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ABH47707/c
      Set of
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99999, ABF00010-ABF99989, ABF00010-ABF99989, ABF00010-ABF99989, ABF00010-ABF99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; Ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pot_sequences
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 5.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels
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100.0%; Pred. No. 5.3e+02;
tive 0; Mismatches 0; Indels
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                                                                                                                                                                             This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99389, ABF00010-ABF9989, ABF00010-ABF9989 and ABI00010-ABF3073 captesent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                       oligonucleotides, useful for diagnosis and cell typing, is to detect single-nucleotide polymorphisms and cytosine
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                                                                                                                                    Claim 1; SEQ ID NO 177161; 29pp + Sequence Listing; German.
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Pred. No. 5.3e+02;
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Berlin K;

Olek A, Piepenbrock C, (EPIG-) EPIGENOMICS AG

WPI; 2001-657177/75.

07-APR-2000; 2000DE-01019173. 06-APR-2001; 2001WO-IB000713.

WO200177384-A2

18-OCT-2001.

Homo sapiens,

Claim 1; SEQ ID NO 195509; 29pp + Sequence Listing; German.

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nuclectide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                              SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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ftp.wipo.int/pub/published_pct_sequences
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RCTTTACTCCATT 13
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic discorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC09989, ABC00100-ABF99899, ABH0010-ABF99899 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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Oligonucleotide SEQ ID NO 195509 for detecting SNP TSC0048102

(first entry)

22-FEB-2002

ABF95512

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1D ABF95512/c
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AC ABF95511
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:512/c ABF95512 standard; DNA; 13

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a renge of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo int/pub/published_pot_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 0.5%; Score 11; DB 1; Length 13; Best Local Similarity 100.0%; Pred. No. 5.3e+02; Matches 11; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                        Sequence 13 BP; 2 A; 6 C; 0 G; 4 T; 0 U; 1 Other;
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designed to detect single-nucleotide polymorphisms and cytosine
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                                                                                                                                                                                                                                                                                                            Claim 1; SEQ ID NO 153319; 29pp + Sequence Listing; German.
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                                                                                                       Berlin K;
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretraeted genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99889, ABF00010-ABF99899, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic formmat from WIPO at the printed specification, but fur wipo int/pub/published_pct_sequences
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                                                                                                                                                                                  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                      Oligonucleotide SEQ ID NO 93457 for detecting SNP TSC0023347.
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84.6%; Pred. No. 5.3e+02;
tive 1; Mismatches 1; Indels
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ABC93440 standard; DNA; 13
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designed to detect single-nucleotide polymorphisms and cytosine
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 5.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels
                                         Query Match 0.5%; Score 11; DB 1; Length 13; Best Local Similarity 100.0%; Pred. No. 5.3e+02; Matches 11; Conservative 0; Mismatches 0; Indels
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Sequence 13 BP; 4 A; 0 C; 4 G; 5 T; 0 U; 0 Other;
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABF9989 and ABI00010-ABF3073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fitted specification, but fit wipo.int/pub/published_pct_sequences
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                                                            Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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Matches 11; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; SEQ ID NO 73261; 29pp + Sequence Listing; German.
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nes 11; Conservative
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range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99889, ABF00010-ABE99889, ABF00010-ABE99889, ABF00010-ABH999889 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fire wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                           SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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ABF17946 standard; DNA; 13 BP.
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1147 ACCTATACCCC 1157
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06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173

(EPIG-) EPIGENOMICS

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99899, ABF00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                Oligonucleotide SEQ ID NO 117943 for detecting SNP TSC0029481
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84.6%; Pred. No. 5.3e+02;
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ABF18296
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and oytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABF00010-ABF99989, ABF00010-ABF99989, ABF00010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo int/pub/published_pct_sequences
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                                                                                                                                                                           Set of oligonuclectides, useful for diagnosis and cell typing, idesigned to detect single-nuclectide polymorphisms and cytosine
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                                                                                                                                                                                                                                                claim 1; SEQ ID NO 118293; 29pp + Sequence Listing; German.
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100.0%; Pred. No. 5.3e+02;
tive 0; Mismatches 0; Indels
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hes 11; Conservative
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                                                                                                              Olek A, Piepenbrock C,
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                                                                                                                                                                                                                  methylation status.
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Best Local &
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ABF18297/c
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data for this patent did not form part of the printed specification, was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

Sequence 13 BP; 3 A; 0 C; 8 G; 2 T; 0 U; 0 Other;

88888

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99889, ABF00010-ABF99899 and ABI00010-ABI82073 cepseent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE039989, ABE00010-ABE99989 and ABI00010-ABE82073 represent the oligomers described in the invention, NOTE: The sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                       Claim 1; SEQ ID NO 118294; 29pp + Sequence Listing; German.
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  methylation status.
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                                                                                                                                                                                                                                                                                                                             SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 5.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels
Query Match 0.5%; Score 11; DB 1; Length 13; Best Local Similarity 100.0%; Pred. No. 5.3e+02; Matches 11; Conservative 0; Mismatches 0; Indels
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ABF77165 standard; DNA; 13 BP.
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                                                                                                      3 GAAGTGGGAGG 13
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RESULT 1320 ABH29778/c

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99999, ABF00010-ABF99999, ABH00010-ABH99999 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 5.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 5.3e+02;
Matches 11; Conservative 0; Mismatches 0; Indels
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07-APR-2000; 2000DE-01019173.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

Oligonucleotide SEQ ID NO 205755 for detecting SNP TSC0050430.

RESULT 1321

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RESULT 1324
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Local Similarity 100.0%; Pred. No. 5.3e+02;
les 11; Conservative 0; Mismatches 0; Indels
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                                                              Berlin K,
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                                                           Olek A, Piepenbrock C,
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(EPIG-) EPIGENOMICS AG
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This invention describes novel oligonucleotide primers or peptide nucleic

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acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory. Central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABC0010-ABH99998 and ABI0010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo.int/pub/published_pct_sequence
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100.0%; Pred. No. 5.3e+02;
iive 0; Mismatches 0; Indels
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Best Local Similarity
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                             Oligonucleotide SEQ ID NO 62670 for detecting SNP TSC0016602.
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                                                21-FEB-2002 (first entry)
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Berlin K;

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100.0%; Pred. No. 5.3e+02;
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Olek A,

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The
                                                                                                                                                         This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at the printed specification, but the wipo.int/pub/published_pct_sequences
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          Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                 Claim 1; SEQ ID NO 225866; 29pp + Sequence Listing; German.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; SEQ ID NO 90486; 29pp + Sequence Listing; German.
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RESULT 13 ABH25889

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Oligonucleotide SEQ ID NO 212089 for detecting SNP TSC0051687.
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 1093 ACCCCCACCT 1103
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oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF0010-ABF99889, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at figurial patent from the printed specification, but ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                   SNP; single nuclectide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11; DB 1; Length 13;
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ABH52441 standard; DNA; 13 BP.
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                                                                  (EPIG-) EPIGENOMICS AG
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The obligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fire.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                            Claim 1; SEQ ID NO 252418; 29pp + Sequence Listing; German
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100.0%; Pred. No. 5.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The coligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Oligonucleotide SEQ ID NO 190458 for detecting SNP TSC0000398.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; SEQ ID NO 190458; 29pp + Sequence Listing; German.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The coligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 teperesnt the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                 This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                                                                                                   'Match 0.5%; Score 11; DB 1; Length 13; Local Similarity 100.0%; Pred. No. 5.3e+02; les 11; Conservative 0; Mismatches 0; Indels
Claim 1; SEQ ID NO 72609; 29pp + Sequence Listing; German.
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                                                                                                                                                                                                                                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                             Sequence 13 BP; 8 A; 4 C; 0 G; 1 T; 0 U; 0 Other;
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ABF02655

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; SEQ ID NO 90485; 29pp + Sequence Listing; German.
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                                                                                                                                                                                      Oligonucleotide SEQ ID NO 102652 for detecting SNP TSC0025640.
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cancer also used for addiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9999, ABF00010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                  designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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Piepenbrock
                                         WPI; 2001-657177/75
olek A,
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Query Match 0.5%; Score 11; DB 1; Length 13; Best Local Similarity 100.0%; Pred. No. 5.3e+02; Matches 11; Conservative 0; Mismatches 0; Indels 1147 ACCTATACCCC 1157 3 ACCTATACCCC 13 à a

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Oligonucleotide SEQ ID NO 148206 for detecting SNP TSC0037419. ABF48209 standard; DNA; 13 BP. (first entry) 21-FEB-2002 ABF48209; RESULT 1340 ABF48209,

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173.

(EPIG-) EPIGENOMICS AG.

Berlin K; Olek A, Piepenbrock C,

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

llaim 1; SEQ ID NO 148206; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The

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oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99889, ABF00010-ABF99889, ABH00010-ABH99889 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                     SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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Local Similarity 100.0%; Pred. No. 5.3e+02;
tes 11; Conservative 0; Mismatches 0;
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Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status. WPI; 2001-657177/75.

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Olek A, Piepenbrock C,

(EPIG-) EPIGENOMICS AG

06-APR-2001; 2001WO-IB000713, 07-APR-2000; 2000DE-01019173.

WO200177384-A2. Homo sapiens.

18-OCT-2001.

Claim 1; SEQ ID NO 190040; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and methololic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE99989, ABF00010-ABE99989, ABH00010-ABH99989 and ABI00010-ABI82073 tepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

Sequence 13 BP; 5 A; 4 C; 0 G; 4 T; 0 U; 0 Other;

Query Match

0.5%; Score 11; DB 1; Length 13;

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, contral nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 tapeses the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
                                                                                         SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                      Oligonuclectide SEQ ID NO 74729 for detecting SNP TSC0019197.
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                          21-FEB-2002 (first entry)
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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cch 0.5%; Score 11; DB 1; Length 13; al Similarity 100.0%; Pred. No. 5.3e+02; 11; Conservative 0; Mismatches 0; Indels
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ABC62652 standard; DNA; 13
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11; Conservative 808 TGTAAGAAAG 818

Local Similarity

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à g ABC74712 standard; DNA; 13 BP.

RESULT 1343
ABC74712
ID ABC7471:
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ABC74712

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989 and ABI00010-ABF32073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo int/pub/published_pt_sequences
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE99989, ABF00010-ABF99989, ABF00010-ABF99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                      Claim 1; SEQ ID NO 150805; 29pp + Sequence Listing;
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Oligonucleotide SEQ ID NO 100868 for detecting SNP TSC0025093.

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ABF00871 standard; DNA; 13

RESULT 1348

12 ACTACTACTAA

21-FEB-2002 (first entry)

ABF00871;

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligoners for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The coligoners are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABH99899 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fitch pub/published_pot_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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100.0%; Pred. No. 5.38+02;
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nes 11; Conservative
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 5.3e+02;
Matches 11; Conservative 1; Mismatches 1; Indels
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF9989, ABF00010-ABF9989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence was obtained in electronic format from WIPO at the printed specification, but the wipo.int/pub/published_pct_sequence
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF99899, ABH00010-ABF99899 and ABI00010-ABF3073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo int/pub/published_pct_sequences
This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nuclectide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but they was obtained in electronic format from WIPO at
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designed to detect single-nucleotide polymorphisms and cytosine
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RESULT 1354 ABC93441/c

Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Berlin K;

Olek A, Piepenbrock C,

WPI; 2001-657177/75.

(EPIG-) EPIGENOMICS AG

06-APR-2001; 2001WO-IB000713.

WO200177384-A2

18-OCT-2001.

07-APR-2000; 2000DE-01019173

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                       Oligonucleotide SEQ ID NO 93458 for detecting SNP TSC0023347.
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14.6%; Pred. No. 5.3e+02;
ve 1; Mismatches 1; Indels
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84.6%; Pred. No. 5.3e+02;
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretraeted genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory,
                                                                                                                                               This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, certral nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at the printed specification, but fire wipo.int/pub/published_pct_sequences
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designed to detect single-nucleotide polymorphisms and cytosine
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                                                                                                                Claim 1; SEQ ID NO 50586; 29pp + Sequence Listing; German.
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tive 0; Mismatches 0; Indels
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central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989 and ABI00110-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at Ity.who.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                               SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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994 GITIGIGGAAAT 1006
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                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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           Oligonucleotide SEQ ID NO 219205 for detecting SNP TSC0053297.
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claim 1; SEQ ID NO 160961; 29pp + Sequence Listing; German.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; 8s; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                    Piepenbrock C,
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretraeted genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABF99989, ABF0010-ABF99989 and ABI0010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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.00.0%; Pred. No. 5.3e+02;
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nes 11; Conservative
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99889, ABF00010-ABF99889, ABH00010-ABF99889 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form art of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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ABC42501 standard; DNA; 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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100.0%; Pred. No. 5.3e+02;
iive 0; Mismatches 0; Indels
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                                                                     Sequence 13 BP; 2 A; 0 C; 8 G; 3 T; 0 U; 0 Other;
was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences
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Homo sapiens

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ABH63487

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Length 13; 0; Indels CNS;

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nuclectide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, acadiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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(EPIG-) EPIGENOMICS AG

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                                                                                                                          Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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100.0%; Pred. No. 5.3e+02;
iive 0; Mismatches 0; Indels
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and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010 -ABC9989, ABF0010-ABF9989, ABF0010-ABF9989, ABF0010-ABF9989 and ABI0010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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84.6%; Pred. No. 5.38+02;
tive 1; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                           Score 11; DB 1; ]
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Local 11; Conservative
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ID ABC8
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06-APR-2001; 2001WO-IB000713 07-APR-2000; 2000DE-01019173

18-OCT-2001

(EPIG-) EPIGENOMICS AG

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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligoners for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, or diseases including immune system, gastrointestinal, respiratory, oligomers are also used for detecting cell type differentiation. ABC0010-ABE99989, ABF00010-ABE99989, ABF00010-ABE99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                         SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                        Oligonucleotide SEQ ID NO 82830 for detecting SNP TSC0020881.
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0.5%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 5.38+02;
Matches 11; Conservative 0; Mismatches 0; Indels
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABF82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPD at
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100.0%; Pred. No. 5.3e+02;
iive 0; Mismatches 0; Indels
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Length 13;

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Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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Pred. No. 5.3e+02;
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                                                                               Claim 1; SEQ ID NO 148205; 29pp + Sequence Listing;
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100.0%; Pred. No. 5.3e+02;
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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ABC99913 standard; DNA; 13 BP.
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                                                                                      Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC99989, ABF00010-ABE99989 and ABI00010-ABI82073 data for this patent did not form part of the printed specification, but the was obtained in electronic format from WIPO at
                                                                                                                                                                                                                               SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                Oligonucleotide SEQ ID NO 252417 for detecting SNP_TSC0061576.
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100.0%; Pred. No. 5.38+02;
live 0; Mismatches 0; Indels
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Best Local Similarity 100.
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TIGTTTGTGGG 13
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligomucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, ardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF0010-ABF99989, ABH0010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                     Sequence 13 BP; 7 A; 4 C; 1 G; 0 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                  84.6%;
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                                                                                                                                                                                                               acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and oytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for disagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC09389, ABF00010-ABF09389, ABF00010-ABF9989, ABF00010-ABF99989, ABF00010-ABF99989 and ABI00010-ABF99989. The sequence data for this patent did not form par of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                                                                                       This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
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                                                                                                                Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.
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designed to detect single-nucleotide polymorphisms and cytosine
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                                                                                                                                                                           Claim 1; SEQ ID NO 99930; 29pp + Sequence Listing; German
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07-APR-2000; 2000DE-01019173
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                                                         Piepenbrock C,
                            (EPIG-) EPIGENOMICS AG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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0.5%; Score 11; DB 1; Length 13; 34.6%; Pred. No. 5.3e+02; ve 1; Mismatches 1; Indels
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SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

Oligonucleotide SEQ ID NO 136008 for detecting SNP TSC0033966.

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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABE9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but the wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                  SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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100.0%; Pred. No. 5.3e+02;
cive 0; Mismatches 0; Indels
                                                . Match 0.5%; Score 11; DB 1; Length 13; Local Similarity 100.0%; Pred. No. 5.3e+02; les 11; Conservative 0; Mismatches 0; Indels
               Sequence 13 BP; 3 A; 10 C; 0 G; 0 T; 0 U; 0 Other;
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Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.

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100.0%; Pred. No. 5.3e+02;
Ative 0; Mismatches 0;
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ABF50809 standard; DNA; 13 BP.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically prereated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and merabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC999889, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic formmat from WPPO at
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                                                  Set of oligonucleotides, useful for diagnosis and cell typing, idesigned to detect single-nucleotide polymorphisms and cytosine methylation status.
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                                                                                                                                      Claim 1; SEQ ID NO 178020; 29pp + Sequence Listing; German.
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Local Similarity 84.6%; Pred. No. 5.3e+02;
hes 11; Conservative 1; Mismatches 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; SEQ ID NO 150806; 29pp + Sequence Listing; German.
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range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010 -ABC09989, ABF00010-ABF99889, ABF00010-ABF99899 ABF00010-ABF99899 ABF00010-ABF99899 and ABI00010-ABF8073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form par of the printed specification, but was obtained in electronic format from WIPO at fire WIPO at fire wipo.int/pub/published_pct_sequences
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This invention describes novel oligonuclectide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonuclectides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABC0010-ABE99989, ABC0010-ABE99989, ABC0010-ABE99989, and ABI0010-ABE9073 represent the oligomers described in the invention. NOTE: The sequence was obtained in electronic formmat from WIPO at the printed specification, but the wipo.int/pub/published_pct_sequences
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2001US-0335059P.
2001US-0337055P.
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Matches 11; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hepatitis C virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200281494-A1.
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08-JUN-2001;
24-OCT-2001;
05-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-MAR-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 1390
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REPRESENTATION OF THE PROPERTY OF THE PROPERTY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligoners for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligoners are also used for detecting cell type differentiation. ABC0010-ABC9989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 tepresent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
                                                                                                                                       SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Set of oligonucleotides, useful for diagnosis and cell typing, i designed to detect single-nucleotide polymorphisms and cytosine methylation status.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
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                                                                         Oligonucleotide SEQ ID NO 186798 for detecting SNP TSC0046048.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; SEQ ID NO 186798; 29pp + Sequence Listing; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 0.5%; Score 11; DB 1; Length 13; Best Local Similarity 100.0%; Pred. No. 5.3e+02; Matches 11; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seguence 13 BP; 3 A; 3 C; 0 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    was obtained in electronic format from Wi
ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Berlin K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABH16023 standard; DNA; 13 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-APR-2001; 2001WO-IB000713.
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Olek A, Piepenbrock C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13 GAGAATGTTAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (EPIG-) EPIGENOMICS AG
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                                                                                                                                                                                                                                                                                           Homo sapiens
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ABH16023;

RESULT 1389 ABH16023

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The Ikaros gene encodes a zinc finger protein which can be used in a therapeutic composition to treat animals with an immune system disorder. It may also be used for assessing whether a subject is at risk for an immune disorder. It is of particular use in treating a disorder of the corpus striatum. Heterologous genes may be expressed by placing them control of an Ikaros responsive control element and contacting the element with an Ikaros protein. Potential high affinity binding sites for the Ikaros proteins were found in the enhancer and promoter regions of the TCR-alpha, beta and delta, the CD3-delta, espsilon and gamma of other T cell restricted antigens. Related sequences to the Ikaros of other T cell restricted antigens. Related sequences to the Ikaros motif were also found in the purine boxes of the IL2 gene in the INT site of the TDT promoter as well as in the INFNB variant sites of the HV long terminal repeat. See also AAQ61504-Q61543. (Updated on 10-MAR-2003 to add missing OS field.) (Updated on 25-MAR-2003 to correct PN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ikaros, mIK; transcription factor; mouse; lymphocyte;
cell differentiation; T cell; cancer; immunodeficiency;
Alzheimer's disease; therapy; diagnosis; T cell receptor; enhancer; ss.
                                                                                                                                                                                                               I-cell pathway regulatory gene, Ikaros - encodes family of unique zinc
finger proteins, useful for treating immune system disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mouse T cell receptor alpha enhancer binding site for Ikaros.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.5%; Score 11; DB 1; Length 14;
llarity 100.0%; Pred. No. 6.6e+02;
Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 14 BP; 3 A; 1 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                    Disclosure, Page 27, 112pp, English.
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14-SEP-1993; 93WO-US008743.
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                                        92US-00946233
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                                                                                  (GEHO ) GEN HOSPITAL CORP.
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Les 11; Conserv
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                                                                                                                               Georgopoulos K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-SEP-1996;
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                                        14-SEP-1992;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  field.)
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes, or nozymes, zinzymes, amberzymes, and G-cleaver ribozymes, DNAzymes, or nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV pan and or incleades that specifically bind the Enhancer I region of HBV genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HCV. The compounds methods of the invention are useful for the treatment of degenerative and disease states related to HBV and HCV infection, replication and gene expression such as cirrhosis, liver failure, and hepstcoellular carcinoma. The present sequence represents a target for one of the anti-
                                                                                                                                                                                                                                                                                                                                          Novel compound useful for treating cirrhosis, liver failure, hepatocellular carcinoma, or condition associated with hepatitis C virus infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ikaros; zinc finger; protein; immune disorder; therapy; treatment;
corpus striatum; regulatory gene; enhancer; regulatory element;
                                                                                                                                                                                                                                              Lee
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCR alpha enhancer element comprising Ikaros binding site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 11; DB 1; Length 13;
Pred. No. 5.3e+02;
2; Mismatches 0; Indels
                                                                                                                                                                                                                                            Pavco
                                                                                                                                                                                                                                            Mcswiggen J, Morrissey D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 13 BP; 4 A; 5 C; 2 G; 0 T; 2 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 321; 387pp; English.
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Local Similarity 81.8%;
les 9; Conservative 2
                       RIBOZYME PHARM INC
BLATT L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (revised)
(first entry)
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                                                                                                                                                                                                                                            Macejak D,
Roberts E;
                                               BLATT L.
MACEJAK D.
MCSWIGGEN J.
MORRISSEY D.
                                                                                                                                                                                                                                                                                                              WPI; 2003-229207/22.
                                                                                                                             PAVCO P.
LEE P.
DRAPER K.
ROBERTS E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gene expression
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21-OCT-1994
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AAQ61505;

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RESULT 1391

AAQ61505

Query Match

Matches

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This oligonucleotide from the T cell receptor alpha enhancer was identified as a potential high affinity binding site for Ikaros proteins (see AMY70851-71). It partially includes the core motif GGGAA found in consensus recognition sequences for murine Ikaros isoforms mIk-1, mIk-2 and mIk-3 (see AAV52830-32). High affinity binding sites for Ikaros have the TCR antigen complex, the OD spens, the SL3 and HIV long terminal repeat and in chancer and promoter regions of the regulatory domains of the TCR antigens complex, the OD spens, Ikaros is involved in early (see AAV45258-402) by gel retardation assay. Ikaros is involved in early differentiation of lymphocytes. The invention provides Ikaros nucleic acids (see AAV4205-11 and AAV4240) and polypeptides, vectors and host calls. These are used to treat T and B cell diseases, to control calls. These are used to treat T and B cell diseases, to control responsive element, to treat nervous system diseases and to modulate cell division, amplification or differentiation, especially in haematopoietic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ikaros poly:peptide(s) - useful for treating disorders of immune system
or corpus striatum.
New nucleic acid encoding Ikaros protein involved in early differentiation of lymphocytes - existing in several isoforms, and related products, used to treat e.g. immune diseases or cancer and to control cell differentiation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CD3-delta gene; Ikaros gene; T cell; progenitor stem cell; leukaemia; differentiation marker; immune system; corpus striatum; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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0
                                                                                                                                                                                                                                                                                                                                                                                                                                           .5%; Score 11; DB 1; Length 14; 3.0%; Pred. No. 6.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 14 BP; 3 A; 1 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Pred. nc.
                                                                                     Disclosure; Page 37; 158pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Col 26; 111pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV67069 standard; cDNA; 14 BP.
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93US-00121438.
94US-00238212.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mouse TCE-alpha enhancer #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1272 GAAGTGGGAGG 1282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alzheimer's disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GAAGTGGGAGG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1998-582621/49
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seorgopoulos K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-SEP-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-SEP-1993;
02-MAY-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-JAN-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus sp.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV67069;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 1393
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The present invention describes a purified peptide having at least one of the following properties: (a) it stimulates transcription of a DNA sequence under the control of a delta A element, an NFRB element or an itaros binding oligonucleotide consensus sequence; (b) it binds to any of a delta A element, an NFRB element or an itaros binding oligonucleotide consensus sequence; (c) it competitively inhibits the binding of a naturally occurring itaros isoform to any of a delta A element, an NFKB element or an itaros binding oligonucleotide consensus sequence; (d) it competitively inhibits Itaros binding to Ikaros responsive elements; or (e) if inhibits protein-protein interactions of transcriptional complexes formed with naturally occurring itaros isoforms. The proteins, provided that they stimulate gene transcription under the control of delta A elements and/or itaros-binding oligonucleotides, competitively inhibit binding of naturally occurring itaros isoforms to delta A elements, NFKB elements and/or itaros-binding oligonucleotides, competitively inhibit itaros binding to Ikaros-responsive elements and/or inhibit protein-protein interactions of transcriptional complexes with containing in itaros isoforms. The protein competitively inhibit itaros binding to Ikaros-responsive elements and/or inhibit protein-protein interactions of transcriptional complexes with allowed the competitively inhibit itaros isoforms, or corpus striatum disorders, e.g. leukaemia or AlDS, or corpus striatum disorders, e.g. lathaemian or AlDS, or corpus striatum disorders, e.g. alzheimer's disease. AAV66975 to AAV67118 represent oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "Forms double stranded region with bases 14-11 of sequence appearing as AAS12680"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *tag= a
bound_moiety= "Residues 14-11 of sequence appearing as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "Forms double stranded region with bases 6-1 of sequence appearing as AAS12680"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    moiety= "Residues 6-1 of sequence appearing as
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.5%; Score 11; DB 1; Length 14;
100.0%; Pred. No. 6.6e+02;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tobacco ringspot virus RNA Substrate molecule mutant #9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 14 BP; 3 A; 1 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag= b
/label= Cleavage_point
replace(8,C)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAS13213 standard; RNA; 14 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  υ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1272 GAAGTGGGAGG 1282
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAAGTGGGAGG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tobacco ringspot virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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misc_binding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S:
Matches 11,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 1394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAS13213
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The present invention relates to oligonucleotides based on nucleotide sequences obtained from both wild-type tubercle bacilli (wtTB) that are susceptible to a drug and mutant-type tubercle bacilli (mtTB) that are resistant to a drug and mutant-type tubercle bacilli (mtTB) that are resistant to a drug. The drugs used in the present invention are rifampicin (RFP), streptomycin (SM), kanamycin (SM), isoniazid (INH) and crassing the present responsible for resistance to RFP; the responsible for resistance to SM, the inhA gene is responsible for resistance to INH; the katG gene is responsible for resistance to INH; cand the embB gene is responsible for resistance to INH; cand the embB gene is responsible for resistance to INH; cand the embB gene is responsible for resistance to INH; cand the embB gene is responsible for resistance to INH; cand the embB gene is responsible for drug resistance and premers used to generate the probes. The present sequence is an oligonucleotide of the present invention can be used to emble the differentiation of drug resistance and the determination of infection with tubercle bacilli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hepatitis C virus, HCV, internal ribosome entry site element, IRES; ss; 40S ribosome subunit, domain IIId, domain IIIe.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /*tag≈ d
/note= "Major groove exposed Watson-Crick face"
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note= "Major groove exposed Watson-Crick face"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.5%; Score 11; DB 1; Length 14; Best Local Similarity 100.0%; Pred. No. 6.6e+02; Matches 11; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hepatitis C virus IRES element domain IIIe RNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 14 BP; 1 A; 3 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *tag= c
note= "Form sheared base pair"
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/*tag= a
5. .10
/*tag= b
/note= "Form wobble pair"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                    Example 1; Page 70; 114pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABK15310 standard; RNA; 14 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-JUL-2001; 2001WO-US021871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1284 CAGCGCCCACA 1294
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14 CAGCGCCCACA 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hepatitis C virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200203919-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        simultaneously
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABK15310;
bacilli.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABK15310,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a synthetic RNA catalyst capable of cleaving an RNA substrate, the catalyst comprising a substrate binding portion and a "hairpin" portion, i.e. a hairpin ribozyme. The RNA catalyst is used for cleaving RNA substrates, e.g. RNA from Human Immunodeficiency virus (i.e. an anti-viral substrate) and in regulation of gene expression in prokaryotes and eukaryotes. The present sequence is mutated substrate RNA of a hairpin ribozyme sequence of the invention, from Tobacco ringspot virus. Note: The present sequence does not appear in the specification but is derived from the substrate RNA molecule shown in Figure 42C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New oligonucleotides, nucleic acid probes and primers are useful for differentiating drug-resistance and determining infection with tubercle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tubercle bacillus, drug sensitivity, drug resistance, rifampicin, streptomycin, kanamycin, isoniazid, ethambutol, rpoB gene, rrs gene, rpsL gene, inhA gene, katG gene, embB gene, probe, PCR primer, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                    Hairpin ribozymes capable of cleaving an RNA substrate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 14 BP; 2 A; 2 C; 4 G; 0 T; 6 U; 0 Other;
                                                                                                                                                                                                                         (UYDE-) UNIV DEKALB NORTHERN ILLINOIS.
(BIOT-) BIOTECHNOLOGY RES & DEV CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Takenishi S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 32; Page; 116pp; English.
                                                                                                                                                                                                                                                                                                              Tritz RH, Hicks MF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAF95191 standard; DNA; 14 BP
                                                                                  89US-00409666.
90US-00577658.
91US-00703427.
93US-00078774.
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     95US-00476423
                                                          88US-00247100
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mycobacterium tuberculosis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (NISM ) NISSHINBO IND INC. (SYST-) SYSTEM RES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             886 ACAGTGCTGTT 896
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-246696/26.
                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-556486/62.
                                                                                  20-SEP-1989;
04-SEP-1990;
14-MAY-1991;
17-JUN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EP1076099-A2
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  07-JUN-1995;
                                                          20-SEP-1988
                                                                                                                                                                                                                                                                                                           Hampel AE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAF95191;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
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Gaps

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The present invention relates to a new computer for producing three dimensional representation of a molecule. The computer of the invention comprises a machine-readable data storage medium, a working memory for storing instructions, a central processing unit compled to the working memory and machine-readable data storage medium and a display coupled to the central processing unit. The molecule comprises a hepatitis C virus (HCV) internal ribosomal entry site (IRES) element. The invention is useful for producing a three dimensional representation of a molecule comprising hepatitis Virus C IRES element, for identifying potential inhibitors of hepatitis Virus C IRES element, for identifying potential interactions of hepatitis Virus C IRES element, for dentifying potential interactions of the IRES with its binding partner, the 4OS Tibosome subunit. The computer generates the three-dimensional representation of the C ordinates and displays graphical three-dimensional representation of the HCV IRES stem loops in at least one of domain IIId or IIIe. The structural data permits the identification of atoms that are important for AOS Tibosomal subunit binding. The present mucleic acid sequence represents the hepatitis C virus internal ribosome entry site element domain IIIe of the invention. This sequence represents residues 290-303
                                                                                                                                                        Computer for producing a three dimensional representation of a molecule hepatitis C virus entry site element comprises a machine-readable device, data storage medium, working memory, central processing unit and display.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Papillomavirus; transactivator messenger; mRNA function; inhibitor; infection; warts; feet; laryrx; condylomata acuminata; epidermodysplasia verruciformis; flat cervical warts; cervical intraepithelial neoplasia; cancer; HPV; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 14 BP; 2 A; 3 C; 6 G; 0 T; 3 U; 0 Other;
                                        (STRD ) UNIV LELAND STANFORD JUNIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BPV-1 E2 gene (5' coding region).
                                                                                                                                                                                                                                      Claim 2; Fig 1c; 39pp; English.
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10-JUL-2000; 2000US-0217673P.
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(first entry)
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                                                                                                                    WPI; 2002-179655/23.
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27-APR-1994
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                                                                            Puglisi JD;
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AAQ50075/c
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/*tag= a /*tag= a for the packbone (and preferably all) of the backbone subunits are composed of amide units, so that the oligomer consists of the nucleobases attached covalently to a polyamide backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New peptide nucleic acid oligomers hybridisable to cytomegalovirus or papilloma:virus - are stable anti:sense molecules with high affinity for single stranded DNA, used for treating infections.
                                                                                                                                                                The sequence (AAQ50059) shows the BPV-1 E2 transactivator gene, BPs 2443-4203, while sequence (AAQ50061) is the nucleotide sequence of the 5' common untranslated region of BPV-1 coding for early messenger RNAs showing the domain having nucleotides 89-304 See also (AAQ50062-97) for related nucleotides and their respective regions. The oligonucleotides are useful for treating papilloma virus infections, such as warts of the hands, feet and larynx, condylomata acuminata, epidermodysplasia verruciformis, flat cervical warts and cervical intrapithelial neoplasia. They may also be used to regulate the growth of cancer cells which carry HPV. (Updated on 25-WAR-2003 to correct PN field.)
                                                                Papilloma virus anti sense oligo nucleotide inhibition - useful to treat warts, condylomata acuminata and to regulate growth of cancer cells carrying human papillomavirus.
                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 peptide nucleic acid; PNA; cytomegalovirus; CMV; papillomavirus; antiviral; diagnostic; 88.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Peptide nucleic acid targetting HPV 5'-coding region.
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                                                                                                                                                                                                                                                                                                                                                      Sequence 15 BP; 3 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
             Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Crooke ST, Mirabelli CK,
            Crooke ST, Mirabelli CK, Ecker DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                         Disclosure, Fig 6; 60pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAT01717 standard; DNA; 15 BP.
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                                           WPI; 1993-336826/42.
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misc_feature
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                                                                                                                New oligomers are claimed which (A) have at least one peptide nucleic acid (PRA) subunit and (B) have a sequence hybridisable to AUG region, 5 contranslated region, intron/exon (I/E) junction or coding sequence of untranslated region, intron/exon (I/E) junction or coding sequence of cytomegalovirus gene selected from DNA polymerase, IEI and IEZ, or Dybridisable to the E, EZ, E4, E5, E6, E7, L1 or L2 reading frames of a papillomavirus. The PNAs can be used to target RNA and single stranded DNA (ssDNA) to produce antisense-type gene regulation moieties. Hence they may be used therapeutically for modulating cytomegalovirus and papillomavirus processes and also as diagnostics (e.g., as probes for specific mRNAs). PNA oligomers have high affairty for complementary single stranded binds with RNA or ssDNA and a second PNA strand binds with RNA or ssDNA and a second PNA strand binds with RNA or ssDNA and a second PNA strand binds with the resulting double helix or with the first PNA strand binds with RNA or ssDNA and a second PNA strand binds possess no significant charge and are water soluble, which facilitates cellular uptake. Futher, since they contain amides of non-biological amino acids, they are biostable and resistant to enzymatic degradation by proteases. The present sequence targets papillomavirus 5'-coding region
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0.5%; Score 11; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 8.1e+02;
Matches 11; Conservative 0; Mismatches 0; Indels
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                                                 Claim 10; Page 52; 65pp; English.
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94US-00218934.
94US-00224483.
94US-00224958.
94US-00228041.
94US-0021800.
94US-00211380.
94US-00291932.
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24-MAR-1997 (first en
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04-APR-1994;
07-APR-1994;
15-APR-1994;
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06-JUL-1994;
15-AUG-1994;
16-AUG-1994;
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AAT54284/c
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The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves interleukin-5 (III-5) mRNA at the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential harmerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these ware their muclease resistance. The ribozymes cleaves the III-5 target sequences their nuclease resistance. The ribozymes cleave the III-5 target sequences and thereby inhibit III-5 expression, making them useful for treating chronic asthma, e.g. by inhibiting the synthesis of III-5 in lymphocytes and preventing the recruitment and activation of eosinophils. Theorymes can also be used to treat eosinophilia (related to parasitic infection or with pulmonary infiltration) and L-tryptophan-associated
                                                                                                                                                                                                                                                                                                                                                                                                                                               Stinchcomb DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW; Stinch S, Karpelsky A, Kisich K, Matulic-Adamic J, Mcswiggen JA; Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD; Tqacz D, Usman N, Wincott FE, Woolf T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Papillomavirus; bovine; BPV; BPV-1; E2 transactivator; detection; inhibitor; ss.
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94US-00293520.
94US-00300000.
94US-00303039.
                                                                       94US-00311486.
94US-00311749.
94US-00314397.
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94US-00319492.
94US-00321993.
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94US-00337608.
94US-00345516.
94US-00357577.
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95US-00380734
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(first entry)
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                                                                                                                                                                                                                                                                                                16-DEC-1994;
23-DEC-1994;
30-JAN-1995;
  19-AUG-1994
02-SEP-1994
23-SEP-1994
23-SEP-1994
03-OCT-1994
11-OCT-1994
11-OCT-1994
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11-OCT-1994
28-NOV-1994
28-NOV-1994
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23-MAY-1996
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A claimed enzymatic RNA mol. for the cleavage of apolipoprotein (a) (apo(a)) mRNA, specifically a hammerhead ribozyme, has binding arms complementary to the present sequence (mucleotide position 10532). The ribozyme blocks to some extent apo(a) expression, and can therefore be used to diagnose or treat conditions related to lipoprotein (a) levels, e.g. atherosclerosis, myocardial infarction, stroke, restenosis and heart disease. PCR was used to generate a substrate for T7 RNA polymerase ranscription from monkey apo(a) cDNA clones. Labelled transcripts were synthesised in vitro to form 2 templates. The oligonucleotides and labelled transcripts were annealed, RNaseH added and the mixts. incubated. After a designated time the reactions were stopped, and RNA septo. on sequencing polyacrylamide gels. The percentage of substrate cleaved was determined by autoradiographic quantification, and the most accessible ribozyme target sites chosen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Enzymatic RNA mols. which cleave apo(a) mRNA - useful in diagnosis and treatment of conditions related to Lp(a) levels, e.g. atherosclerosis, myocardial infarction, and heart diseases.
                                                                         Enzymatic RNA mols, which cleave apo(a) mRNA - useful in diagnosis and treatment of conditions related to Lp(a) levels, e.g. atherosclerosis, myocardial infarction, and heart diseases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.5%; Score 11; DB 1; Length 15;
100.0%; Pred. No. 8.1e+02;
tive 0; Mismatches 0; Indels
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Ramharack R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 15 BP; 3 A; 2 C; 4 G; 0 T; 6 U; 0 Other;
  Newton RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 3; Page 21; 37pp; English
                                                                                                                                                          Claim 3; Page 21; 37pp; English
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  Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          95WO-US011995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (RIBO-) RIBOZYME PHARM INC.
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                                        WPI; 1996-188454/19.
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Best Local Similarity
Matches 11; Conserv
  Stinchcomb DT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cebus apella.
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                                                                                                                                                                                                                                                                                                                        - used
                                                                                                                                                                                                                                                                                                                                                                                                                                    AAT00455-T00474 represent oligonucleotides targetted at the E2 mRNA of bovine papillomavirus 1 (BPV-1). This sequence is targetted against a portion of the S. coding region. These sequences were used to design antisense phosphorothicte oligonucleotides against HPV-11 E2 mRNA, such as ISIS 2105 (see AAT00450). The HPV-11 E2 antisense oligonucleotides adainst HPV-11 E2 mRNA, such hybridise to regions of the HPV-11 E2 mRNA (preferably the AUG region) and thereby inhibit E2-dependent transactivation. The HPV-11 e1 mRNA regions oligonucleotide sequences (and analogues of them) can interfere with, or modulate the function of mRNA. The sequences can be used for the diagnosis and treatment of HPV infections. They can also be used for the detection and quantification of HPV in samples. (Updated on 25-MAR-2003 to correct PP field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                  New oligo:nucleotide(s) corresponding to papilloma:virus sequences -
for the diagnosis and treatment of infections and for detection and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Apo(a) mRNA (nt. pos. 10532) hammerhead ribozyme target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Enzymatic RNA molecule; cleavage; apolipoprotein (a); apo(a); harmmerhead ribozyme; target sequence; diagnosis; treatment; lipoprotein (a); atheroslerosis; myocardial infarction; stroke; restenosis; heart disease; monkey; se.
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                                                                                                                                                                                                                                        Crooke ST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity 100.0%; Pred. No. 8.1
                                                                                                                                                                                                                                      Ecker DJ,
                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Col 11-12; 39pp; English.
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92US-00984263.
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                                                                                                                                                                                                (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                WPI; 1995-365244/47.
                                                                                                                                                                                                                                                                                                                                                            quantification.
                                                                                                 31-MAR-1992;
                                                                                                                                         04-DEC-1989;
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                     US5457189-A
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Query Match Best Local (

Matches

RESULT 1401

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schultz451-1.rng

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A claimed enzymatic RNA mol. for the cleavage of apolipoprotein (a) (abo(a)) mRNA, specifically a harmerhead ribozyme, has binding arms complementary to the present sequence (nuclectide position 10543). The ribozyme blocks to some extent apo(a) expression, and can therefore be used to diagnose or treat conditions related to lipoprotein (a) levels, e.g. atherosclerosis, myocardial infarction, stroke, restenosis and heart transcription from monkey apo(a) cDNA clones. Labelled transcripts were synthesised in vitro to form 2 templates. The oligonucleotides and labelled transcripts were annealed, RNaseH added and the mixts. Incubated After a designated time the reactions were stopped, and RNA sept. on sequencing polyacrylamide gels. The percentage of substrate cleaved was determined by autoradiographic quantification, and the most accessible ribozyme target sites chosen

Sequence 15 BP; 3 A; 2 C; 4 G; 0 T; 6 U; 0 Other;

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Ouery Match 0.5%; Score 11; DB 1; Length 15; Best Local Similarity 100.0%; Pred. No. 8.1e+02; Matches 11; Conservative 0; Mismatches 0; Indels
                                                                                                   811 AAGAAAAGCCT 821
                                                                                                                                             13 AAGAAAAGCCT 3
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Gaps

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RESULT 1403

Apo(a) mRNA (nt. pos. 10564) hammerhead ribozyme target sequence. AAT37750 standard; mRNA; 15 BP. 18-NOV-1996 (first entry) AAT37750;

Enzymatic RNA molecule; cleavage; apolipoprotein (a); apo(a); hammerhead ribozyme; target sequence; diagnosis; treatment; lipoprotein (a); atherosclerosis; myocardial infarction; stroke; restenosis; heart disease; monkey; ss.

Cebus apella.

WO9609392-A1. 28-MAR-1996.

95WO-US011995. 21-SEP-1995;

23-SEP-1994;

(RIBO-) RIBOZYME PHARM INC.

Stinchcomb DT, Mcswiggen J, Newton RS, Ramharack R;

WPI; 1996-188454/19.

Enzymatic RNA mols. which cleave apo(a) mRNA - useful in diagnosis and treatment of conditions related to Lp(a) levels, e.g. atherosclerosis, myocardial infarction, and heart diseases.

Claim 3; Page 21; 37pp; English.

A claimed enzymatic RNA mol. for the cleavage of apolipoprotein (a) (apo(a)) mRNA, specifically a hammerhead ribozyme, has binding arms complementary to the present sequence (nucleotide position 10564). The ribozyme blocks to some extent apo(a) expression, and can therefore be used to diagnose or treat conditions related to lipoprotein (a) levels, e.g. atherosclerosis, myocardial infarction, stroke, restenosis and heart disease. PCR was used to generate a substrate for T7 RNA polymerase transcription from monkey apo(a) CDNA clones. Labelled transcripts were synthesised in vitro to form 2 templates. The oligonucleotides and labelled transcripts were annealed, RNaseH added and the mixts.

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incubated. After a designated time the reactions were stopped, and RNA sepd. on sequencing polyacrylamide gels. The percentage of substrate cleaved was determined by autoradiographic quantification, and the most accessible ribozyme target sites chosen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Enzymatic RNA mols. which cleave apo(a) mRNA - useful in diagnosis and treatment of conditions related to Lp(a) levels, e.g. atherosclerosis, myocardial infarction, and heart diseases.
                                                                                                           Gaps
                                                                                                                                                                                                                                                                                       Apo(a) mRNA (nt. pos. 10570) hammerhead ribozyme target sequence.
                                                                                                                                                                                                                                                                                                              Enzymatic RNA molecule; cleavage; apolipoprotein (a); apo(a); hammerhead ribozyme; target sequence; diagnosis; treatment; lipoprotein (a); atherosclerosis; myocardial infarction; stroke; restenosis; heart disease; monkey; ss.
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                                                                               0.5%; Score 11; DB 1; Length 15;
100.0%; Pred. No. 8.1e+02;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ramharack R;
                                                            Sequence 15 BP; 3 A; 2 C; 4 G; 0 T; 6 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 3; Page 21; 37pp; English.
                                                                                                                                                                                                                 AAT37752 standard; mRNA; 15 BP.
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                                                                                                                                                                                                                                                                  (first entry)
                                                                          Query Match
Best Local Similarity 100.0
                                                                                                                                  811 AAGAAAAGCCT 821
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                                                                                                                                                        12 AAGAAAAGCCT
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                                                                                                                                                                                                                                                                  18-NOV-1996
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AAT37752/c
  8X33333
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A claimed enzymatic RNA mol. for the cleavage of apolipoprotein (a) (apo(a)) mRNA, specifically a hammerhead ribozyme, has binding arms complementary to the present sequence (nucleotide position 10570). The ribozyme blocks to some extent apo(a) expression, and can therefore be used to diagnose or treat conditions related to lipoprotein (a) levels, e.g. atheroscleroseis, myocardial infarction, stroke, restenosis and heart disease. PCR was used to generate a substrate for T7 RNA polymerase transcription from monkey apo(a) cDNA clones. Labelled transcripts were labelled transcripts were annealed, RNaseH added and the mixts. incubated. After a designated time the reactions were stopped, and RNA sept. on sequencing polyacrylamide gels. The percentage of substrate cleaved was determined by autoradiographic quantification, and the most accessible ribozyme target sites chosen Sequence 15 BP; 3 A; 3 C; 3 G; 0 T; 6 U; 0 Other;

Gabs ; 0 Query Match 0.5%; Score 11; DB 1; Length 15; Best Local Similarity 100.0%; Pred. No. 8.1e+02; MatcHes 11; Conservative 0; Mismatches 0; Indels

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RESULT 1405

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The present invention describes an oligonucleotide or oligonucleotide analogue consisting of 8-50 bases which specifically hybridises to a cap or transrepressor region of the E2 mRNA from a papillomavirus. The oligonucleotide can be used as a hybridisation probe for detecting papillomavirus in a sample or for antisense therapy of papillomavirus infections or for research. The present sequence represents a bovine papillomavirus (BPV-1) E2 antisense oligonucleotide given in the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense oligonuclectide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis; acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                                                                                                                                      Oligonucleotides specific for papillomavirus E2 mRNA - useful as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 3 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
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100.0%; Pred. No. 8.1e+02;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                     Crooke
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                                                                                                                                                                                                                                   Mirabelli CK,
                                                                                                                                                                                                                                                                                                                                                       Disclosure; Fig 6; 33pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Pr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                     (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                     Ecker DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 GGTGACTGTCC 1
Bovine papillomavirus
                                                                                                                                                                                                                                                                                                                        hybridisation probes
                                                                                                                                                                                                                                                                      WPI; 1998-530859/45.
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ses 11; Conserv
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                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAV30148-66 represent antisense oligonucleotides directed against the boxine papillomavirus (BBV-1) E2 transactivator mRNA. The present sequence is directed against the 5' coding region. These oligonucleotides can be used for diagnosis and treatment of papillomavirus infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oligo:nucleotide(s) complementary to human papilloma virus mRNA - useful as probes for diagnosing HPV infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bovine papillomavirus; BPV-1; transactivator; E2; messenger RNA, mRNA; antisense oligonucleotide; diagnosis; infection; hybridisation; probe;
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Pred. No. 8.1e+02;
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v 100.0%; Pred. No. c...
o; Mismatches
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Best Local Similarity 100.
Matches 11; Conservative
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                811 AAGAAAAGCCT 821
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                                                                                                                                                                                                                                                                                                                                 Bovine papillomavirus
                                             11 AAGAAAAGCCT
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03-DEC-1990;
31-MAR-1992;
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                                                                                                                                                                                                                                                                                                                     Synthetic.
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                                                                                                                                                                  AAV30161;
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RESULT 1406 AAV53790/c

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Gaps

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The specification describes antisense oligonucleotides (AAX52869-X55271)
directed against at least 2 mRNAs selected from target genes, coding and
non-coding regions of RNAs corresponding to target genes, gene initiation
codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'
end and the juxta-section between coding and non-coding regions and all
segments of RNAs encoding proteins associated with one or more diseases,
conditions or mixtures. The antisense oligonucleotides may be derived
from sequences AAX557272-74. These multiple target oligonucleotides
cipecifically AAX5180-271) can be used for the antisense treatment of
diseases and conditions. Typical diseases and conditions are those
associated with impaired respiration and inflammation, including lung
diseases, pulmonary vasconstriction, inflammation, allergic rhinitis,
acute asthma, allergies, asthma, impeded respiration, respiratory
distress syndrome, pain, cystic fibrosis, pulmonary hypertension,
disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g.
colon cancer, breast cancer, lung cancer, menactarias cancer.
colon cancer, breast cancer, lung cancer, menactases, as
well as all types of cancers which may metastasized
to the lungs, including breast and prostate cancer
                                                                                                                                                                                          New antisense oligonucleotides used in treatment of, e.g. pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 15 BP; 0 A; 8 C; 4 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                               Disclosure; Page 70; 120pp; English.
  09-JUN-1998; 98US-00093972
                                              (UYEC-) UNIV EAST CAROLINA
                                                                                                                                          WPI; 1999-229400/19
                                                                                                                                                                                                                    vasoconstriction
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Query Match 0.5%; Score 11; DB 1; Length 15; Best Local Similarity 80.0%; Pred. No. 8.1e+02; Matches 12; Conservative 1; Mismatches 2; Indels
                                                                                                         1240 CTCGCCTCCGACCCC 1254
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Gaps

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AAA34528 standard; DNA; 15 BP.
                                                                                                         28-JUL-2000 (first entry)
                                                                      AAA34528;
RESULT 1408
                     AAA34528
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phosphorothioate; impaired respiration; inflammation; allergy; allergy; allergy is allergy; anchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD; Human; adenosine receptor; low adenosine antisense oligonucleotide; Human adenosine receptor related polynucleotide SEQ ID NO:2217. cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.

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WO200009525-A2.
                 Homo sapiens.
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98US-0095212P. 99WO-US017712.

03-AUG-1999; 03-AUG-1998;

24-FEB-2000.

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The present invention describes a new composition comprising an antisense oligonuclectide (ON) with low adenosine (up to 15%), which targets nuclear acide involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, antiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation.

CC diseases associated with inflammation, allergies, and impaired airways, including lung disease and diseases whose secondary effects afflict the lungs of a subject. They can be used for treating of e.g. ischaendic conditions, pulmonary visoconstriction, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive collinears and cancers which may metastassise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the carcinomas and cancers which may metastassise to the lungs, including breast and prostate cancer. The A-containing ONS break down with the release of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA33313 to AAA35312 represent to nucleotide sequences given in the sequence listing from the present to the present invention, which correspond to SEQ ID NO:11 to 1865 (AAA33332 to AAA3392) are specifically claimed ONS from the present invention do not match in the disclosure of the present invention do not match in the interpretation of the present invention of the libertal process of the present invention of the libertal process of the present invention of the libertal process of the present invention do not match the libertal process of the present invention of the libertal process of the present invention do not match the libertal process of the present invention of the libertal process of the libertal process of the libertal process of the present invention of the libertal process of the libertal process of libertal process
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                                                                                                                                                                                                                   Nèw antisense oligonucleotides useful for treating e.g. pulmonary vasoconstruction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 0 A; 8 C; 4 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 543; 1343pp; English
                           (UYEC-) UNIV EAST CAROLINA.
                                                                                                                                                      WPI; 2000-205971/18.
                                                                                                                                                                                                                                                                                                                          cancers,
                                                                                            Nyce JW;
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Substrate for hammerhead ribozyme which cleaves HCV RNA at nt. 6331.
                                                                                                                                                  ВP
1240 CTCGCCTCCGACCCC 1254
                                    CTCGCCTBGGGCCCC 15
                                                                                                                                                AAZ64219 Standard; RNA; 15
                                                                                                                                                                                                                                 28-MAR-2000 (first entry)
                                                                                                                                                                                           AAZ64219;
                                                                                                       RESULT 1409
                                                                                                                              AAZ64219
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Bnzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage; cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer; autoimmune disease; ss. 99WO-US009027. Hepatitis C virus. W09955847-A2 26-APR-1999; 04-NOV-1999 (UYEC-) UNIV EAST CAROLINA. (NYCE/) NYCE J W.

Nyce JW;

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The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the Hepatitis C virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme target sites using a computer folding slowithm and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their activities optimised by either varying the length of the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with hepaticellular carcinoma. The ribozymes may be used in combination with interferon to treat HCV infection, other infectious diseases, autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; brushertor depletion; respiratory; bronchodilator; antihilammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; panh; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                         Novel ribozymes for the treatment of diseases and conditions related to hepatitis C infection.
                                                                                                                                 Pavco PA, Macejak D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.5%; Score 11; DB 1; Length 15; 31.8%; Pred. No. 8.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 3 A; 7 C; 2 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human C/EBP polynucleotide fragment #2217.
                                                                                                                                 Blatt L, Mcswiggen JA, Roberts E,
                                                                                                                                                                                                                                                              Claim 1, Page 85, 123pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF20650 standard; DNA; 15 BP
98US-0083217P.
98US-0100842P.
99US-00257608.
99US-00274553.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-MAR-2000; 2000WO-US008020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81.8%;
                                                                                             (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 81.8
nes 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  974 AGTCCAAGCTC 984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5 AGUCCAAGCUC 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 diseases, and cancer
                                                                                                                                                                     WPI; 2000-062023/05
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               18-SEP-1998;
25-FEB-1999;
23-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
 27-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-OCT-2000.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAF20650;
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The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antinflammatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the expression and or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activity of target polypeptides associated with lung/respiratory disorders and transmitters, transcription factors, immunoglobulins and antibodies, and thought receptors, cytokines and chemokine receptors, adenosine receptors, bradykinin receptors, chemokine receptors, adenosine receptors, bradykinin receptors, contrain nervous system (CNS) and peripheral nervous and non-nervous system creceptors, defensins, growth factors, vasoactive peptides and receptors, binding proteins and malignancy associated proteins. The anticulary respiratory obstruction and/or bronchoonstriction and/or bronchoonstriction) and/or lung inflammation, allergy(ies) and/or condition selected from pulmonary vasoconstriction, inflammation, allergy, pulmonary, bypertension, emphysema, chronic obstructive pulmonary disease or condition selected from pulmonary vasoconstriction, inflammation, hypertension, emphysema, chronic obstructive pulmonary disease (COPP), by pulmonary charters syndrome by pulmonary infections, bronchitis, copicies and conditions emphysema, chronic obstructive pulmonary disease (COPP), by pulmonary charters and copicies and conditions are presected from pulmonary infections, bronchitis, copicies and copicies and copicies emphysema, chronic obstructive pulmonary infections, bronchitis, copicies and copicies and copicies emphase and copicies and copicies emphase and copicies and copicies emphase and copicies and copicies and copicies and copicies and copicies and copicies
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                                                                                                                                                                                           Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and/or cancer. AAF18434 to AAF21543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.5%; Score 11; DB 1; Length 15; 80.0%; Pred. No. 8.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human Plexin-B1 alternative splice acceptor site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Seguence 15 BP; 0 A; 8 C; 4 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Mismatches
                                                                                                                                                                                                                                                                                                         Claim 14; Page 265; 1592pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAS00030 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1240 CTCGCCTCCGACCCC 1254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 CTCGCCTBGGGCCCC 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the present invention
                                                                                                                                                  WPI; 2000-679539/66
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-MAY-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 1411
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%&&%#$####$####$
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WO200114420-A2 Homo sapiens

99US-0127958P

06-APR-1999;

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The sequence represents an allele specific oligonucleotide probe for acetylcholds using the Human gene encoding the m1 muscarinic acetylcholine receptor, CHMR1. CHMR1 is one subtype of a family of 5 genetically distinct muscarinic acetylcholine receptors, mAChR, that play important roles in higher brain function such as learning and memory. The protein is a possible drug target for treatments for Alzheimer's disease and amenia with Lewy bodies (DLB). The gene, polypeptide, haplotypes and antibodies raised against the protein are useful for diagnosing and expression of the gene or activity of the protein, e.g. Alzheimer's disease and dementia with Lewy bodies
                                                                                                     New variants of the ml muscarinic acetylcholine receptor gene, useful to find treatment for Alzheimer's and dementia, have single nucleotide variations at one or more of five polymorphic sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polynucleotide useful for inhibiting telomerase activity in cells,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; telomerase; hTR; cytostatic; anti-inflammatory; adenocarcinoma;
breast; prostate; colon; mixed cell leukaemia; Hodgkin's disease;
fertility; inflammatory condition; tumour; cancer; veterinary;
immunosuppression; telomerase inhibitor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1. .15
/kag= a OTHER
/mod_base= OTHER
/note= "N3'-P5' phosphoramidate linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.5%; Score 11; DB 1; Length 15;
100.0%; Pred. No. 8.1e+02;
ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15 BP; 4 A; 5 C; 4 G; 2 T; 0 U; 0 Other;
                     Nandabalan K, Stephens JC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human telomerase polynucleotide inhibitor #13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Weinrich SL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                           Claim 15; Page 18; 52pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAS15932 standard; DNA; 15 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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Best Local Similarity 100.
Matches 11, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            879
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGAGGACTCA 12
                     Choi JY, Denton RR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            869 CTGAGGACTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-656955/75.
                                                             WPI; 2001-282046/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GERO-) GERON CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200174136-A2
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modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gryaznov SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-FEB-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAS15932;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              genomic DNA encoding Plexin. Bl, in the region of the alternative splicing of the extracellular domain. Plexins are large transmembrane proteins whose extracellular domain shares homology with Scatter factor receptors and contain an approximately $00 amino acid Semaphorin domain. The plexin useful in diagnosis, therapy and in the biopharmaceutical industry. In particular, the plexin polymucleotides and polypeptides are useful for particular, the plexin polymucleotides and polypeptides are useful for particular, the plexin polymucleotides and polypeptides are useful for treating compounds (e.g. plexin-specific binding agents or antibodies) for treating or diagnosing a disease or disorder involving aberrant cell growth (e.g. hyperplasia, neoplasia, cancer or neurodegenerative diseases or disorders involving aberrant immune regulation (e.g. ununosuppressive diseases or blabetes Type I), or immunosuppressive diseases such as multiple sclerosis or rheumatoid arthritis
                                                                                                                                                                                                                                                                                                                             New plexin polynucleotides and polypeptides, useful in diagnosis, therapy and in producing compounds for treating diseases involving aberrant cell growth (e.g. cancer) or immune regulation (e.g. autoimmune diseases).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                The sequence represents the alternative splice acceptor site of Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .;
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Alzheimer's disease; dementia with Lewy bodies; DLB;
allele specific oligonucleotide probe; ss.
                                                                                                                                                                                                                   Tesier-Lavigne M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.5%; Score 11; DB 1; Length 15; 100.0%; Pred. No. 8.1e+02; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human CHMR1 allele specific oligonucleotide probe #4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 15 BP; 2 A; 9 C; 2 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                   Goodman CS,
                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 30; 79pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAS02944 standard; DNA; 15 BP.
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                                                             25-AUG-2000; 2000WO-US023365.
                                                                                                       99US-0150576P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-OCT-2000; 2000WO-US028211
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                                                                                                                                                                                                                   Comoglio PM,
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Best Local Similarity 100.
Matches 11, Conservative
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(REGC ) UNIV CALIFORNIA.
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                                                                                                                                                                                                                 Artigiani S,
Tamagnone L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-AUG-2001
                                                                                                       25-AUG-1999;
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                01-MAR-2001
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Gaps

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The invention relates to polymucleotide inhibitors (I) and methods for inhibiting telomerase activity. (I) are useful in inhibiting telomerase activity. (I) are useful in inhibiting telomerase activity and proliferation of a telomerase positive cell, and in manufacturing a medicament for inhibiting telomerase activity in a cell and in treating telomerase-mediated condition or disease, such as adenocarcinoma of breast, prostate or colon, mixed cell leukaemia, Hodgkin's disease, fertility and inflammatcry conditions. (I) are also useful in treating a tumour or in manufacturing a medicament for the treatment of tumour. The polymucleotide inhibitors may also be used in diagnostic assays for detecting RNA or DNA. Inhibition of telomerase activity in cells in vivo is useful in prophylactic and therapeutic methods of treating cancer and other disorders involving inappropriate expression of telomerase, and in treating veterinary proliferative diseases. Inhibition of telomerase in haematopoietic stem cells is useful for immunosuppression and for selectively down-regulating specific branches of the immune system. The present sequence represents human telemental properties of the immune system. The present sequence represents human telemental properties of the immune system. The present sequence represents human telemental properties of the immune system. The present sequence represents human telemental properties of the immune system. The present sequence represents human telemental properties of the immune system. The present sequence represents the method of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New oligonucleotides capable of inhibiting the function of an mRNA from a papillomavirus when hybridized to the viral mRNA useful for diagnosing, treating or preventing papillomavirus infection e.g., warts of the hands, feet or larynx.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antisense therapy, dermatological, anticancer, virucide, papillomavirus, viral infection, wart, phosphorothioate, ss.
for treating telomerase-mediated condition or disease, such as cancers, tumors, Hodgkin's disease, or inflammatory conditions.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ch 0.5%; Score 11; DB 1; Length 15; 1 Similarity 100.0%; Pred. No. 8.1e+02; 11; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15 BP; 5 A; 1 C; 7 G; 2 T; 0 U; 0 Other;
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                                                                Example 3; Page 32; 48pp; English
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90WO-US007067.
92US-00835946.
96US-00692257.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Crooke ST, Mirabelli CK,
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03-MAR-1992;
05-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the invention
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, shi discorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procter; IGFBP-2; IGFBP3; inflammation; psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatoolsis, neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neoblasis, condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ameliorating the effects of a disorder, e.g. psoriasis, by administering V (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
        The present sequence is an antisense oligonucleotide for a papillomavirus. When the antisense oligonucleotide hybridises to a papillomavirus mena, the function of the manha is inhibited. The oligonucleotide is useful for the diagnosis and treatment of infections in animals caused by papillomavirus, such as warts of the hands, feet or larynx, condylomata acuminata, epidermodysplasia veruciformis, flat cervical warts, cervical intraepithelial neoplasia, or other infections phosphorothioate backbone
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                                                                                                                                                                                                                                                          Score 11; DB 1; Length 15;
Pred. No. 8.1e+02;
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                                                                                                                                                                                                                      Sequence 15 BP; 3 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 7; Page 58; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF48823 standard; DNA; 15 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                             1159 GGTGACTGTCC 1169
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ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
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Sequence 15 BP; 7 A; 5 C; 3 G; 0 T; 0 U; 0 Other;

Gaps ő DB 1; Length 15; 8.1e+02; 0; Indels 0.5%; Scor. 100.0%; Pred. No. co. Query Match 0.5 Best Local Similarity 100. Matches 11; Conservative

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AAF45214 standard; DNA; 15 BP. AAF45214; 1416

(first entry) 30-MAR-2001 IGFBP2 oligonucleotide #53.

Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplama; kidney disease; neoblation of the retina; ss.

Homo sapiens.

WO200078341-A1.

28-DEC-2000

21-JUN-2000; 2000WO-AU000693

99US-0140345P. 21-JUN-1999; (MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Werther GA, Wraight CJ,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 6; Page 34; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-like Growth Factor [16f]-1 receptor, IGF binding protein [1GFB9]-2 or IGFB93), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense Apr45153-6150nuclectides of the present invention (see Apř45151 and Apř45153-6561). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serbornhea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic EBSER SERVICE SERVICE

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disease, kidney disease, hyperproliferation of the inside vessels or any other hyperplasia
                                                            Length 15;
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                                    0 U; 0 Other;
                                                           Score 11; DB 1; L
Pred. No. 8.1e+02;
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100.0%; Pred. No. c...
0; Mismatches
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Best Local Similarity
Matches 11; Conserv
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RESULT 1417 AAF48826

ВР AAF48826 standard; DNA; 15 AAF48826;

(first entry) 30-MAR-2001

IGFBP3 oligonucleotide #2246.

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant; virucide, ophthalmological; keloid, skin discorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFB-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; necovascular condition of the retina; ss.

Homo sapiens.

WO200078341-A1.

21-JUN-2000; 2000WO-AU000693.

99US-0140345P. 21-JUN-1999;

Edmondson SR; (MURD-) MURDOCH CHILDRENS RES INST. Werther GA,

Wraight CJ,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 7; Page 58; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligomuclectide, (for Insulan-Ilke Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP], which is capable of inflammation and/or other disorders. The present sequence is an oligomuclectide which can be used to design the antisense oligomuclectides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pliaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovacular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperpropoliferation of the inside of blood vessels or any other hyperplasia

Sequence 15 BP; 7 A; 5 C; 3 G; 0 T; 0 U; 0 Other;

Gaps . 0 Length 15; 0; Indels 0.5%; Score 11; DB 1; Le 100.0%; Pred. No. 8.1e+02; tive 0; Mismatches 0; 11; Conservative Query Match Best Local Matches

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1060 CCAAACCCAAG 1070 CCAAACCCAAG 11

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RESULT 1418

ВÞ AAF46482 standard; DNA; 15

AAF46482;

(first entry) 30-MAR-2001

IGFBP2 oligonucleotide #1321.

Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, Keloid, skin discorder, Insulin-like Growth Factor. I receptor; IGF-1; pityriasis; IGF binding proctein, IGFB-2; IGFBP3; inflammation, psoriasis; pilazis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; kearcosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease;

Homo sapiens

WO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693

21-JUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Werther GA, CJ, Wraight

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

Example 7; Page 55; 201pp; English.

inflammation.

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 6; Page 42; 201pp; English.

The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense oligomucleotide, (for Insulin-like Growth Factor [IGF] receptor, IGF binding protein [IGFBP] 2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, oligomucleotide which can be used to design the antisense oligomucleotides of the present invention (see AAF4151 and AAF45153-6150mucleotides of the present invention growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic and placeae, hyperproved and placeae, hyperproved and placeae, hyperproved and placeae, hyperproved and placeae, other sclerotic and placeae. vessels or any other hyperplasia

Sequence 15 BP; 3 A; 0 C; 9 G; 3 T; 0 U; 0 Other;

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Gaps
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0.5%; Score 11; DB 1; Length 15; 100.0%; Pred. No. 8.1e+02; tive 0; Mismatches 0; Indels
  Query Match
Best Local Similarity 100.
Matches 11; Conservative
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Antisense therapy, antiproliferative; antinflammatory, antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperacoular condition; hyperplasis; kidney disease; neovascular condition; hyperplasis; kidney disease;
                                                                                                                                                                                                                                                                                                                                                              Edmondson SR;
                                                                                                                                                                                                                                                                                                                                            (MURD-) MURDOCH CHILDRENS RES INST.
                                                                    BP.
                                                                                                                              IGFBF3 oligonucleotide #1662.
                                                                                                                                                                                                                                                                                                   21-JUN-2000; 2000WO-AU000693
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                                                                    AAF48242 standard; DNA; 15
                                                                                                           (first entry)
1260 CAACCCCCTTC 1270
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                   14 CAACCCCTTC 4
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                                                                                                           30-MAR-2001
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                                                                                        AAF48242;
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticonfers. The method comprises contacting the skin with an receptor, Idpanciolectide, (for Insulin-like Growth Factor [IGF]-1 receptor, IdP binding protein [IGFBP]-2 or IGFBP], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pliaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a prowth factor-mediated malignancies, other sclerotic brain or skin, growth factor-mediated malignancies, other sclerotic disease, hyperproliferation of the inside of blood ö Gaps ö Match 0.5%; Score 11; DB 1; Length 15; Local Similarity 100.0%; Pred. No. 8.1e+02; les 11; Conservative 0; Mismatches 0; Indels Sequence 15 BP; 3 A; 6 C; 2 G; 4 T; 0 U; 0 Other; vessels or any other hyperplasia Query Match

933 CCTCCTCTTCA 943 Matches

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AAF45602;

RESULT 1420

AAF45602,

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The present invention relates to a method for ameliorating the effects of artisense oligonucleotide, (for Insulin-like Growth Factor [IGF] an receptor, IGF binding protein [IGFBP] -2 or IGFBP3), which is capable of inhibiting or reducing protein [IGFBP] -2 or IGFBP3), which is capable of inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153) olitytiasis, ruba, palatis, serborthoea, keloids, keratosis, hyperancovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                        cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; stin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFB-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; kertosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                    Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.5%; Score 11; DB 1; Length 15; 100.0%; Pred. No. 8.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Seguence 15 BP; 0 A; 8 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Pred. no.
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AAF48237 standard; DNA; 15 BP.
                                                                                                                                                  IGFBP3 oligonucleotide #1657.
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                                                                                                   (first entry)
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Matches 11; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
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                                                                                                   30-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-DEC-2000.
                                               AAF48237;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a method for ameliorating the effects of antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3, which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, plaris, serborrhoea, Keloids, keratosis, ineoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic
                                                                                                                                                                                                                                                                                                     Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding protein, IGFBP-2; IGFBP3; inflammation, psoriasis, pilaris, growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, keratosis; neoplasia; scaleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis, kidney disease; neobascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
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0; Mismatches
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                                                                                                   BP.
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                                                                                                                                                                                                                                                         IGFBP2 oligonucleotide #441.
                                                                                                AAF45602 standard; DNA; 15
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hes 11; Conservative
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF] receptor, IGF binding protein [IGFBF] - 2 or IGFBF], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pliaris, serborrhoea, Keloids, keratosis, theoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovacular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic users of the inside of blood
                                                                       Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological; cardiant, virucide, opthhalmological; Keloid; skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein, IGFBP-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichhyosis; serborrhoea; ruba; keareosis; neoplasia; scaleroderme; wart, skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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100.0%; Pred. No. 8.1e+02;
ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 3 A; 0 C; 10 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        MURD-) MURDOCH CHILDRENS RES INST.
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                                       GFBP2 oligonucleotide #1320.
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  30-MAR-2001 (first entry)
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                                                                                                                                                                                                                                                             Homo sapiens.
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Best Local 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
Antisense therapy, antiproliferative, antinflammatory, antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; sthi discorder; lisulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFB-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neobascular condition; hyperplasia; kidney disease;
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ID AAF4
XX AC AAF4
XX DT 30-M
XX IGFB
XX ANTI
XX ANTI
XX ANTI
XX ANTI
XX ANTI
XX SKI
XX IGF
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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                                            Edmondson SR;
                                                                                                                                                                     (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                Example 6; Page 34; 201pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  vessels or any other hyperplasia
                                                                                                                          21-JUN-2000; 2000WO-AU000693.
                                                                                                                                                99US-0140345P.
                                                                                                                                                                                           Wraight CJ, Werther GA,
                                                                                                                                                                                                                   WPI; 2001-041421/05.
                                                                              WO200078341-A1.
                                                                                                                                                                                                                                                                           inflammation.
                                                                                                                                               21-JUN-1999;
                                                        Homo sapiens
                                                                                                    28-DEC-2000
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligomucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders The present sequence is an oligomucleotide which can be used to design the antisense oligomucleotides of the present invention (see AAF45151 and AF45153-6150micleotides of the present invention (see AAF45151 and AF45153-6150micleotides of the present invention (see AAF45151 and AF45153-6160thyosis, pityriasis, ruba, plaris, serborrhoea, keloids, keratosis, incoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovacular condition ouch as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, hidney disease, hyperproliferation of the inside of blood
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 BP; 1 A; 7 C; 5 G; 2 T; 0 U; 0 Other;
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ВР.
                                                                                                                               AAF45217 standard; DNA; 15
                                    750 GTGCACCTGCC 760
                                                              grecaccrecc 15
                                                                                                      RESULT 1425
Best Loca
Matches
                                                                                                                    AAF45217
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à

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keartosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neoblation of the retina; ss. IGFBP2 oligonucleotide #56.

(first entry)

30-MAR-2001

AAF45217;

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, lisulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; kearcosis; neoplasia; solaroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease;

WO200078341-A1

Homo sapiens

IGFBP2 oligonucleotide #54.

(first entry)

30-MAR-2001

AAF45215;

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonuclectied, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [FIGF]-2 or IGFBP3), which is capable of inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectide which can be used invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, cichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperracovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood tessels or any other hyperplasia
                                                                                                                                                                                                                                                                                Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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0
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                                                                                                                                                                                                                 Edmondson SR
                                                                                                                                                                                                                                                                                                                                                                    Example 6; Page 34; 201pp; English.
                                                                                                                                                                               (MURD-) MURDOCH CHILDRENS RES INST.
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                                                                                                                21-JUN-2000; 2000WO-AU000693
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 100.
Les 11; Conservative
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                                                                                                                                                                                                                                                   WPI; 2001-041421/05.
                                                WO200078341-A1.
                   Homo sapiens.
                                                                                                                                                  21-JUN-1999;
                                                                                                                                                                                                                                                                                                                                     inflammation
                                                                                28-DEC-2000.
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisorders. The method comprises contacting the skin with an ceceptor, IGF binding protein [IGFBP]-2 or IGFBB), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide of the present invention (see AAF45151 and AAF45153. Fabilal). The method is useful for ameliorating the effects of psoriasis, neoplasis, production such as a neovascular condition of the retina, hyperneovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                                                            Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
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100.0%; Pred. No. 8.1e+02;
ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 BP; 1 A; 8 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                       Edmondson SR;
                                                                       (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                       Example 6; Page 34; 201pp; English.
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                   99US-0140345P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IGFBP2 oligonucleotide #442.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.
                                                                                                                       Wraight CJ, Werther GA,
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                   21-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to a method for ameliorating the effects of antisense oligonucleotide, (for Insulin-like Growth Factor [IGF] arrisense oligonucleotide, (for Insulin-like Growth Factor [IGF]) areceptor, IGF binding protein [IGFBP] - 2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, neoplasis, ruba, plants, serborrhoea, Keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a menowascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
                                                                                                                                                                                                                                                                                                                                 Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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100.0%; Pred. No. 8.1e+02;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                Edmondson SR;
                                                                                                                                                                           MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 6; Page 34; 201pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vessels or any other hyperplasia
                                                                          21-JUN-2000; 2000WO-AU000693
                                                                                                                            99US-0140345P
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                                                                                                                                                                                                                                Wraight CJ, Werther GA,
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                                                                                                                                                                                                                                                                                    WPI; 2001-041421/05
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                                                                                                                                                                                                                                                                                                                                                                                                                    inflammation.
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                                                                                                                            21-JUN-1999;
                        28-DEC-2000.
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RESULT 1427

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8

AAF452

Matches

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Gaps ö

INST

(MURD-) MURDOCH CHILDRENS RES

21-JUN-2000; 2000WO-AU000693.

Edmondson SR;

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
                                                                                  Example 6; Page 36; 201pp; English.
        Wraight CJ, Werther GA,
                        WPI; 2001-041421/05.
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisorders. The method comprises contacting the skin with an entidomiclectide, (for Insulin-like Growth Pactor [IGP] - creeptor, IGP binding protein [IGPEP] - 2 or IGPEP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the affects of psoriasis, eichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, the brink factor-mediated malignancies, other sclerotic disease, kidney disease, hyperplasia
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Ouery Match 0.5%; Score 11; DB 1; Length 15; Best Local Similarity 100.0%; Pred. No. 8.1e+02; Matches 11; Conservative 0; Mismatches 0; Indels
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1049 AGCCCCTGGCC 1059 Н AGCCCCTGGCC 디 à

AAF48824 standard; DNA; 15 BP. IGFBP3 oligonucleotide #2244. 30-MAR-2001 (first entry) AAF48824; RESULT 1429 AAF48824

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplama; kidney disease; neoblasis condition; the retina; si.

Homo sapiens

WO200078341-A1

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693

21-JUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Wraight CJ, Werther GA,

WPI; 2001-041421/05

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                                                                                                                                                                          The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense cligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-6150nucleotides of the present invention see Partial of provides, schools, pityriasis, ruba, planis, serborrhoea, keloids, keratosis, includy secular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, hyperprovideration of the inside of blood
               Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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: Pred. No. 8.1e+02;
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tive 0; Mismatches
                                                                                                                                      Example 7; Page 58; 201pp; English
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묤. IGFBP3 oligonucleotide #2245. AAF48825 standard; DNA; 15 (first entry) 30-MAR-2001 AAF48825; RESULT 1430 AAF48825

Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding protein; IGFBP-2; IGFBP3; inflammation, psoriasis, pilaris, growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, keratosis, neoplasia; scleroderma, wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss. WO200078341-A1. Homo sapiens.

21-JUN-2000; 2000WO-AU000693. 99US-0140345P. 21-JUN-1999; 28-DEC-2000.

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Werther GA, Wraight CJ,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

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The present invention relates to a method for ameliorating the effects of artisence or the method comprises contacting the skin with an antisence oligomucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligomucleotide which can be used to design the antisense oligomucleotides of the present invention (see AAF4151 and AAF45153-P45161). The method is useful for ameliotating the effects of psoriasis, ichthyosis, pityriasis, ruba, pitaris, serborrhoea, keloids, keratosis, hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to oligonucleotides based on nucleotide sequences obtained from both wild-type tubercle bacilli (wtTB) that are susceptible to a drug and mutent-type tubercle bacilli (mtTB) that are resistant to a drug. The drugs used in the present invention are rifampicin (RPP), streptomycin (SM), kanamycin (KM), isoniazid (INH) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New oligonucleotides, nucleic acid probes and primers are useful for differentiating drug-resistance and determining infection with tubercle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tubercle bacillus, drug sensitivity, drug resistance, rifampicin, streptomycin, kanamycin, isoniazid, ethambutol, rpoB gene, rrs gene, rpsL gene, inhA gene, katG gene, embB gene, probe, PCR primer, ss.
                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 7 A; 5 C; 3 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mutant capture oligonucleotide #17.
                                      Example 7; Page 58; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 8; Page 23; 114pp; English.
                                                                                                                                                                                                                                                                                                                                         vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-AUG-2000; 2000EP-00306563.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-AUG-1999; 99JP-00220357
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-246696/26.
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Matches 11; Conserv
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inflammation.
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ethambutol (EB). The rpoB gene is responsible for resistance to RFP; the rrs gene is responsible for resistance to SM and KM; the rpsL gene is responsible for resistance to SM; the inhA gene is responsible for resistance to IMF; the katG gene is responsible for resistance to IMF; and the embB gene is responsible for resistance to EB. The present invention also relates to nucleic acid probes having part of a nucleotide sequence of tubercle bacilli (TB) responsible for drug resistance and primers used to generate the probes. The present sequence is an alignmention can be used to enable the differentiation of the present invention. The oligonucleotides of the present invention of the back of the present invention of the back of the probes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to a method for haplotyping the human phospholipid transfer protein (PLTP) gene, involving determining the identity of the nucleotide present at one or more of the 25 polymorphic sites within the gene. This can be used to aid drug development for the treatment of diseases associated with different haplotypes of the PLTP gene, possibly including atherosclerosis. The present sequence is an allele-specific primer used for detecting polymorphisms in the PLTP gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Genotyping phospholipid transfer protein gene of individual for haplotyping individual's gene, comprises determining identity of nuclectide pair at polymorphic sites for two copies of PLTP gene present in the individual.
                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; phospholipid transfer protein; PLTP; SNP; atherosclerosis; single nucleotide polymorphism; high-density lipoprotein metabolism; allele-specific oligonucleotide; PCR primer; ss.
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                                                                                                                                                                                                                                                                                  Length 15;
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                                                                                                                                                                                                                                               Sequence 15 BP; 1 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
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100.0%; Pred. No. 8.1e+02;
tive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP
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ABA81590 standard; DNA; 15
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Gaps . 0

0.5%; Score 11; DB 1; Length 15; 100.0%; Pred. No. 8.1e+02; ive 0; Mismatches 0; Indels

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Human; neuropeptide Y receptor Y1; NPYIR; ss; antiarteriosclerotic;
haplotyping; haplotype pair; single nucleotide polymorphism; genotyping;
gene therapy; drug screening; cardiovascular disease; antidepressant;
hypertension; cardiant; depression; probe; sequencing primer; PCR primer;
PCR primer universal tail.
                                                                                                                                                                                                                                                                                                                                                          New isolated polynucleotide variant of neuropeptide Y receptor Y1 (NPYIR) for studying the function of NPYIR, and expressing NPYIR protein for use in screening candidate drugs to treat NPYIR-related diseases.
                                 Human NPYIR gene allele-specific oligonucleotide sequencing primer #6
                                                                                                                                                                                                                            07-MAY-2001; 2001WO-US014773.
                                                                                                                                                                                                                                                        05-MAY-2000; 2000US-0201950P.
           14-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                (GENA-) GENAISSANCE
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                                                                                                                                                                        WO200185742-A2.
                                                                                                                                                Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to novel single nucleotide polymorphisms (SNPs) in the human growth hormone releasing hormone receptor (GHRHR) gene located on chromosome 7D14, and methods for haplotyping and/or genelocyping the GHRHR gene. The methods of the invention make use of allele-specific oligonucleotides (ASOS) as probes and primers and/or primer-extension oligonucleotides for detecting the GHRHR gene polymorphisms. The polymorleotides and screened compounds are useful for the treatment of diseases associated with GHRHR activity, such as isolated growth hormone deficiency (IGHD) and pituitary adenomas.

AAS19609-AAS19621 represent ASO probes for detecting human GHRHR gene
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  Gaps
                                                                                                                                                                                                                            Human; single nuclectide polymorphism; SNP; GHRHR; chromosome 7p14; growth hormone releasing hormone receptor; haplotyping; genotyping; isolated growth hormone deficiency; IGHD; pituitary adenoma; ASO; allele-specific oligonucleotide; probe; ss.
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  Indels
                                                                                                                                                                                                       ASO probe #5 to detect human GHRHR gene polymorphisms.
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  Mismatches
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                                                                                                                       AAS19613 standard; DNA; 15 BP
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                                                                                                                                                                                                                                                                                                                                                                                                             17-APR-2000; 2000US-0197978P
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                           749 TGTGCACCTGCCA 761
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                                                   14 YGTGCGCCTGCCA 2
  Conservative
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                                                                                                                                                                             26-MAR-2002
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    11;
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ID AAS95
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AC AAS95
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Koshy B,

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The invention relates to single nucleotide polymorphisms in the human neuropeptide Y receptor Y1 (NPYIR) gene. A method for haplotyping the neuropeptide Y receptor Y1 (NPYIR) gene. A method for haplotyping the nucleotide at one of more polymorphic sites and determining whether one of the copies of the gene is defined by an edited by one of the NPYIR haplotypes given in the cross state of the specification or whether both copies are defined by a haplotype pair. This method is useful in genotyping, whereby all possible haplotype pair. This method is useful in genotyping, whereby all possible haplotype pair. The haplotype or haplotype pair of the NPYIR gene can be identified by a haplotype or haplotype pair in the haplotype or haplotype pair. NPYIR and its corresponding DNA are used for studying the expression and function of NPYIR, for use in screening or cardidate drugs to creat diseases related to NPYIR activity, sequences cardidate drugs to reat diseases related to NPYIR activity of candidate drugs to activity of NPYIR sequences AASDSG37-AASDSG59 represent allele specific or largeting NPYIR. Sequences AASDSG37-AASDSG59 represent allele specific coligonucleotide probes, sequencing primers, PCR primers and PCR primer coligonucleotide probes, sequencing primers, PCR primers and PCR primer.
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Pred. No. 8.1e+02;
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Claim 15; Page 12; 48pp; English.
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100.0%;
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hes 11; Conservative
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Best Local S
Matches 11
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AAD26057/c
ID AAD26057
XX
AC AAD26057
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AAS95645,

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useful to screen for compounds targeting APOE to treat a specific condition or disease associated with APOE activity. The present DNA sequence is an allele specific oligonucleotide (ASO) primer which is used for detecting human APOE gene polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The patent discloses novel genetic variants of human apolipoprotein E (APOE) gene. The invention also relates to compositions and methods for the papertyping and/tor genotryping the APOE gene. The haplottyping methods of the invention are useful for improving the efficacy and reliability of several steps in the discovery and development of drugs for treating diseases associated with APOE activity. e.g. familial dysbecalipoproteinaemia, type III hyperlipoproteinaemia, atherosclerosis, and Alzheimer's disease. They are useful to validate APOE as a candidate associated with APOE activity and in the design of clinical trials of candidate drugs for treating a specific condition or disease predicted to be associated with APOE activity and in the design of clinical trials of candidate drugs for treating a specific condition or disease predicted to be associated with APOE activity. Genotyping methods are
                                                                        Human, antilipaemic, neuroprotective, nootropic, genetic variant, APOE, apolipoprotein E, haplotyping, familial dybetalipoproteinaemia; therapy, genotyping, type III hyperlipoproteinaemia, Alzheimer's disease; atherosclerosis; polymorphism, allele specific oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genotyping human apolipoprotein gene of individual for determining haplotype of individual, involves determining identity of nucleotide pair at specific polymorphic sites for two copies of gene.
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                                    Human apolipoprotein E (APOE) gene polymorphism detecting ASO primer #8
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Lee HH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 16; Page 14; 78pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                 GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                      16-APR-2001; 2001WO-US012303.
                                                                                                                                                                                                                                                                                                                                                          14-APR-2000; 2000US-0197188P.
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-075064/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Choi JY, Kliem SE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                         WO200179234-A2.
                                                                                                                                                            ASO primer; ss.
                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                             25-OCT-2001.
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Matches
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The invention relates to a method for haplotyping the cholinergic receptor, nicotinic, epsilon polypeptide (CHRNE) gene (ABL88268) of an individual, and also describes 17 novel polymorphic sites within the human CHRNE gene. The CHRNE gene is located on chromosome 17p13-12 and contains 12 exons which encode a 493 amino acid protein (ABB49112). The CHRNE gene is located on chromosome 17p13-12 and adults, and is essential for the normal postnatal development of skeletal adults, and is essential for the normal postnatal development of skeletal whistions in the CHRNE gene sea associated with congenital mysathenic syndrome (CMS). CHRNE gene sequences can therefore be used in gene therapy. The CHRNE gene is also useful for studying the expression of CHRNE, and in expressing CHRNE protein for use in an enthod of the invention of CHRNE, and in expressing CHRNE protein for use in an extending tor candidate drugs to treat diseases related to CHRNE. The creming for candidate drugs to treat diseases related to CHRNE. The creming for candidate target for, and in design of clinical trials of candidate drugs for, treating a specific condition drugs or disease candidate drugs for, treating a specific condition drugs or disease condidated to associated which CHRNE sectivity such as CMS. Polymorphisms of primer extension using oligonocleotide primers comprising specific coligonucleotides (ASOS; ABL88370-ABL88320) as probes and primers, and by primer extension using oligonocleotide primers comprising sectivity, and may be used to screen drugs which target CHRNE. Sequences coligoned to drugs for treating diseases associated with CHRNE sequences activity, and may be used to screen drugs which target CHRNE. Sequences coligonocleotide (ASOS) primers used for detecting polymorphisms in the coligonocleotide (ASOS) primers used for detecting polymorphisms in the coligonocleotide (ASOS) primers used for detecting polymorphisms in the coligonocleotide of the coligonocleotide of the coligonocleotide of the coligonocleotide of the coligonocl
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congenital myasthenic syndrome; CMS; haplotyping; genotyping; haplotype; genetic variant; single nucleotide polymorphism; SNP; gene therapy; drug screening; allele-specific oligonucleotide; ASO; primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polypeptide gene useful in studying expression and function of the protein, and for screening drugs to treat diseases e.g. congential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel genetic variants of cholinergic receptor, nicotinic, epsilon
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34.6%; Pred. No. 8.1e+02;
ve 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                          Tanguay DA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15 BP; 2 A; 0 C; 9 G; 3 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                            Koshy B,
                                                                                                                                                                                                                                                                                                                                                                               Bieglecki KM, Kliem SE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 17; Page 14; 104pp; English
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                                                                                                                                                                                                                                                                                                                                (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                                                          20-JUN-2001; 2001WO-US019835.
                                                                                                                                                                                                                                                                                      20-JUN-2000; 2000US-0212870P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     84.68;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               myasthenic syndrome.
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                                                                                                                                              WO200198316-A2
                                                                                                       sapiens
                                                                                                                                                                                             27-DEC-2001.
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Matches
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Human PER1 allele specific oligonucleotide probe SEQ ID NO:16.

(first entry)

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Choi JY, Kazemi A,
                             WPI; 2002-269091/31
             WO200212497-A2
          Homo sapiens.
               14-FEB-2002
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The present invention describes an isolated human period (Drosophila)
homologue 1, (PER1) polymucleotide (I) comprising a sequence which is a
homologue 1, (PER1) polymucleotide (I) comprising a sequence which is a
coribe method of a reference sequence (ABL52079) for the PER1 gene
(ABL52078) for a polymorphic variant of a reference sequence
(ABL52078) for a pera comparation of a reference sequence
(ABL52078) for a pera comparation of a reference sequence
(ABL52078) for a pera comparation of the pera compounds for disorders associated with circadian rhythm regulation.
The present sequence represents an allele specific oligonucleotide probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; Cytochrome P450; Subfamily XXVIIA; single nucleotide polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel isolated human period Drosophila homolog 1 polynucleotide, useful for therapeutic purposes, for studying the expression and function of the polynucleotide, and for expressing the homolog.
                                                                                                                                                                                                                                                                /note= "polymorphic site indicated by an ambiguity base"
                                    Human; period (Drosophila) homologue 1; PER1; polymorphic variant; polymorphic site; genotyping; haplotyping; circadian rhythm regulation; single nucleotide polymorphism; SNP; gene; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.5%; Score 11; DB 1; Length 15;
84.6%; Pred. No. 8.1e+02;
ive 1; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 3 A; 9 C; 1 G; 1 T; 0 U; 1 Other;
                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 17; Page 14; 162pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-SEP-2000; 2000US-0232468P.
                                                                                                                                                                                                                                                                                                                                                                                                                         13-SEP-2001; 2001WO-US028780.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Koshy B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    84.6%;
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                                                                                                                                                                                                                                                   /*tag= a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Duda A, Kliem SE,
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                                                                                                                                                                                                                                                                                                                             WO200222650-A2
                                                                                                                                                                                                Key
misc_feature
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                                                                                                                                                   Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABK81922,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a polymucleotide sequence comprising a human nuclear factor of kappa light polypeptide gene enhancer in B-cells candidate (NFRIBI isospene. The NFRIBI is useful for screening for drugs and therapeutic purposes. The polymorphism and haplotype data is useful for validating whether NFRBIB is a suitable target for drugs to treat disorders of immune system, screening for such drugs and reducing bias in clinical trials of such drugs. NFRBIB is useful in studying the effect of variation on the biological activity of NFRBIB as well as on the binding affinity of candidate drugs. NFRBIB is useful in studying the system. The isolated monoclonal antibody is useful for diagnostic and prognostic formats and therapeutic methods. The genotyping method is useful for deamont of haplotype pair. The haplotyping method is useful for improving efficiency and outcome of several steps in discovery and development of drugs for treating diseases associated with NFKBIB activity such as disorders of immune system. The haplotyping method is also useful for validating or predicted to be associated with NFKBIB activity. The method is also useful for screening compounds to treating a specific condition or disease consecution of missers of predicted to be associated with NFKBIB activity. The method is also useful in the content of the present sequence is human NFKBIB gene poymorphism detecting ASO (allele-specific coligonucleotide) primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
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                                                                                                 Human, drug screening, polymorphism, haplotype, immune system disorder, nuclear factor of kappa light polypeptide gene enhancer, beta gene; B.cell inhibitor, NFKBIB; gene therapy, chromosome 19q13.1; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel human Nuclear Factor of Kappa Light Polypeptide Gene Enhancer in
Cells Inhibitor, Beta, (NFKBIB) gene polymorphic variants, useful for
screening drug candidates to treat disorders of the immune system.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Indels
                                                    Human NFKBIB gene polymorphism detecting ASO primer #13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 16; Page 13; 71pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Koshy B;
                                                                                                                                                                                                                                                                                                                                                       03-AUG-2001; 2001WO-US024303.
                                                                                                                                                                                                                                                                                                                                                                                                       03-AUG-2000; 2000US-0222552P.
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Best Local Similarity 84.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             871 GAGGACTCAGGCA 883
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Gaps ; 0

12-JUL-2002

RESULT 1438
ABL52091
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AC ABL52091
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Novel isolated human Cytochrome P450, Subfamily XXVIIA, Steroid 27-Hydroxylase, Cerebrotendinous Xanthomatosis 1 gene, useful for therapeutic purposes, and for studying expression and function of the
Steroid 27-Hydroxylase; Cerebrotendinous Xanthomatosis Polypeptide 1;
         CYP27A1; SNP; drug screening; cerebrotendinous xanthomatosis; allele specific oligonucleotide; ASO; primer; ss.
                                                                                                                                           Han J, Sanchis A;
                                                                                                                                                                                                                         Claim 14; Page 14; 90pp; English.
                                                                                                                          (GENA-) GENAISSANCE PHARM INC
                                                                                        15-OCT-2001; 2001WO-US042727.
                                                                                                        .3-OCT-2000; 2000US-0239942P.
                                                                                                                                           Anastasio AE, Chew A,
                                                                                                                                                           WPI; 2002-435436/46
                                                    WO200230952-A2
                                    Homo sapiens,
                                                                      18-APR-2002
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The present invention relates to a new human Cytochrome P450, Subfamily XXVIIA, (Steroid 27-Hydroxylase, Cerebrocendinous Xanthomatosis)

Exvisa (Steroid 27-Hydroxylase, Cerebrocendinous Xanthomatosis)

Polypeptide I (CYP27A1) polymotolotide. The polymotophic variant for a reference sequence which is a polymotophic variant for a polymotophic variant for a reference sequence for a CYP27A1 gene or its fragment, or a polymorphic variant of a reference sequence for a CYP27A1 gene or its fragment. The invention is useful for screening for drugs by contacting the CYP27A1 polymorphic variant with a candidate agent and assaying for binding activity, etc. of CYP27A1, and in expressing CYP27A1 protein for use in screening for candidate drugs to treat diseases related to CYP27A1 activity, etc. of cerebrotendinous xanthomatosis. Other uses include for therapeutic purposes and for studying expression of the CYP27A1 isogenes in vivo, for in vivo screening and testing of drugs targeted against compounds for diseases associated with CYP27A1 activity, etg.

CYP27A1 protein, and for testing the efficacy of therapeutic agents and compounds for diseases associated with CYP27A1 activity, etg.

CYP27A1 protein, and for testing the efficacy of therapeutic agents and compounds for diseases associated with CYP27A1 activity, etg.

CYP27A1 protein, and for testing the efficacy of therapeutic agents and compounds for diseases associated with CYP27A1 activity etg.

CYP27A1 as well as on the binding affinity of candidate drugs targeted against and activity of CYP27A1 as well as on the binding affinity of candidate drugs targeted and activity of cyP27A1 for the treatment of cerebrocendinous xanthomatosis. The present nucleic acid sequence represents one of a collection (ABK81903-ABK81930) of allele specific oligonucleotide (ASO) primers that were used in the invention to detect polymorphisms in the human CYP27Al

Gaps ô 0.5%; Score 11; DB 1; Length 15; 84.6%; Pred. No. 8.1e+02; tive 1; Mismatches 1; Indels Sequence 15 BP; 5 A; 0 C; 6 G; 3 T; 0 U; 1 Other; 11; Conservative Similarity Query Match Best Local 8 Matches

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AAS98702 standard; DNA; 15 (first entry) 26-MAR-2002 AAS98702; RESULT 1440 AAS98702/c 1D AAS987 AC AAS987 XX DT 26-MAR XX XX

BP.

Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #68.

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The invention describes a novel isolated polymucleotide (I) comprising a sequence which is a polymorphic variant (PV) of a reference sequence for colony stimulating factor I receptor (CSTR) gene, found on The CC colony stimulating factor increasing the discovery and development of drugs for treating diseases associated with CSFIR activity, e.g., malignant historycosis, myeloid malignancies, and inflammatory disorders and the haplotypes can be used to validate CSFIR activity, e.g., with CSFIR activity, cencryping the CSFIR gene of an individual can also be used in developing diagnostic tests and therapeutic treatments. (I) is useful in studying the expression and function of CSFIR, and in contains the correction for use in screening for candidate drugs to treat diseases related to CSFIR activity and in studying the effect of the variation on the biological activity of CSFIR. Antibodies are binding affinity of candidate drugs transgering CSFIR. Antibodies are cuseful in a variety of diagnostic and prognostic formats and therapeutic cuseful as probes and primers, and for testing the efficacy of therapeutic agents and compounds. Allele specific oligonucleotides (ASO) are useful as probes and primers, and for testing the efficacy of therapeutic agents and compounds. Allele specific oligonucleotides (ASO) are useful as probes and primers, and for testing the efficacy of target region. Without requiring any a priori knowledge of the phenotypic effect of any particular CSFIR or haplotype the invention provides a care useful contininal trials. This sequence is an allele specific oligonucleotide primer used for detecting CSFIR gene polymorphisms, decreating the intention the maching of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel polymorphic variants of colony stimulating factor 1 receptor useful in studying expression and function of the protein, useful for screening candidate drugs to treat diseases e.g. inflammatory disorders.
                  cytostatic; gene Therapy; malignant histiocytosis; isogene; myeloid malignancy; inflammatory disorder; transgenic animal; haplotype; genotype; human; allele specific oligonucleotide; ASO; primer; ss.
Colony stimulating factor 1 receptor; CSF1R; polymorphic variant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 15; Page 16; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                               (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                                                                                                                                12-APR-2000; 2000US-0196411P.
                                                                                                                                                                                                                                                               12-APR-2001; 2001WO-US012044.
                                                                                                                                                                                                                                                                                                                                                                                                                Choi JY, Koshy B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-075058/10.
                                                                                                                                                                     WO200179225-A2
                                                                                                                         Homo sapiens
                                                                                                                                                                                                                      25-OCT-2001.
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ô Score 11; DB 1; Length 15; Pred. No. 8.1e+02; 0; Indels Sequence 15 BP; 2 A; 4 C; 4 G; 4 T; 0 U; 1 Other; 0.5%; Scott 100.0%; Pred. No. cott 0; Mismatches 1295 AGCCACAGAGC 1305 Query Match 0.5 Best Local Similarity 100. Matches 11; Conservative ò

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AAS98768 standard; DNA; 15 BP. 12 AGCCACAGAGC AAS98768; RESULT 1441 AAS98768 셤 SXXXE

(first entry) 26-MAR-2002 Human, ubiquitin protein ligase B3A, UBE3A, haplotype, SNP, gene therapy, Angelman syndrome, human papilloma virus B6-associated gene, single nucleotide polymorphism; PCR primer; ss.

Human UBE3A gene ASO PCR primer SEQ ID NO: 49.

(first entry)

19-APR-2002

ABL45682;

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Novel polymorphic variants of colony stimulating factor 1 receptor useful in studying expression and function of the protein, useful for screening candidate drugs to treat diseases e.g. inflammatory disorders.
                           Colony stimulating factor 1 receptor; CSF1R; polymorphic variant; cytostatic; gene therapy; malignant histiocytosis; isogene; myeloid malignancy; inflammarcry disorder; transgenic animal; haplotype; genotype; human; allele specific oligonucleotide; ASO; primer; ss.
         Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #134.
                                                                                                                                                                                                                                                                         Claim 15; Page 16; 164pp; English.
                                                                                                                                                                          (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                      .2-APR-2000; 2000US-0196411P.
                                                                                                                                    12-APR-2001; 2001WO-US012044
                                                                                                                                                                                              Koshy B;
                                                                                                                                                                                                                WPI; 2002-075058/10
                                                                                                                                                                                              Choi JY,
                                                                                             WO200179225-A2
                                                                           Homo sapiens
                                                                                                                 25-OCT-2001.
                                                                                                                                                                                              Chew A,
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Novel genetic variants of ubiquitin protein ligase E3A gene useful in studying expression and function of the protein, and for screening drugs to treat diseases e.g. Angelman syndrome.

Claim 17; Page 14; 95pp; English.

Kliem SE, Koshy B, Sausker EA;

Duda A,

WPI; 2002-130535/17.

(GENA-) GENAISSANCE PHARM INC. 01-JUN-2000; 2000US-0208539P.

01-JUN-2001; 2001WO-US017994

WO200192582-A1. Homo sapiens.

06-DEC-2001.

number

The present invention provides the sequences of fragments of the human ubiquitin protein kinase B3A (human papilloma virus E6-associated protein) UBB3A coding sequence and protein. Also described are a number of single nuclectide polymorphisms (SNPs) identified within these fragments. The fragments can be used in the gene therapy of Angelman syndrome and to haplotype the UBE3A gene. The present sequence is an allele specific primer for a coding sequence fragment of the invention

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The invention describes a novel isolated polynuclectide (I) comprising a sequence which is a polymorphic variant (PV) of a reference sequence for colony stimulating factor I receptor (CSFIR) gene, found on The drugs for treating diseases associated with CSFIR activity, e.g., and inflammatory disorders and the haplotypes can be used to validate CSFIR activity, e.g., and the haplotypes can be used to validate CSFIR, as a candidate target for treating a specific condition or disease predicted to be associated with CSFIR activity. Genotyping the CSFIR gene of an individual can also be used in developing disgnostic tests and therapeutic treatments. (I) is useful in studying the expression and function of CSFIR, and in corresponding to the variation on the biological activity of CSFIR, and in studying the effect of the variation on the biological activity of CSFIR. Antibodies are binding affinity of candidate drugs targeting CSFIR. Antibodies are cuseful in a variety of diagnostic and prognostic formats and therapeutic comethods. A transgent canimal is useful in studying expression of the CSFIR isogenes in vivo, for in vivo screening and testing of drugs cargeted against CSFIR protein, and for testing the efficacy of therapeutic agents and compounds. Allele specific oligonuclectides are care useful as probes and primers, and for testing the efficacy of therapeutic agents and compounds. Allele specific oligonuclectides are method for identifying lead compounds that are more likely to show the compounds of that are more likely to show the continue used for detecting CSFIR gene polymorphisms, the invention is an allele specific.
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                                                                                                                                                                                                       Gaps
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                                                                                                0.5%; Score 11; DB 1; Length 15; 34.6%; Pred. No. 8.1e+02;
                                                                                                                                                                                                 1; Indels
Sequence 15 BP; 4 A; 1 C; 5 G; 4 T; 0 U; 1 Other;
                                                                                                                                                                                                            1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABL57628 standard; DNA; 15 BP.
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                                                                                                                                                      84.6%;
                                                                                                                                                                                                                                                                                                             996 TIGIGGAAAICG 1008
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                                                                                                                                                            Local Similarity
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                                                                                                           Query Match
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1; Indels

1; Mismatches

1074 CAGTCCCACTCCA 1086 CAGCCCCACTCCR 14

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11; Conservative

Query Match Best Local Similarity Matches 11, Conserv

ABL45682 standard; DNA; 15 BP.

RESULT 1442 ABL45682 ID ABL45682 XX

Score 11; DB 1; Length 15; Pred. No. 8.1e+02;

0.5%;

Sequence 15 BP; 2 A; 9 C; 2 G; 1 T; 0 U; 1 Other;

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New genetic variants comprising haplotypes of the small inducible cytokine subfamily A, member 21 (SCYA21) gene, useful in improving the efficiency of screening for drugs for treating immunological disorders or for targeting SCYA21.
                                                                                                                                                                                                                  The invention relates to a novel isolated polynucleotide comprising a small inducible cytokine subfamily A (cys-cys), member 24 (SCYA24) isogene. The polypeptide of the invention has antiasthmatic activity. The polynucleotide may have a use in gene therapy. The polynucleotide and polypeptide are useful in the the development of drugs for treating diseases associated with SCYA24 activity, e.g. respiratory inflammatory diseases such as asthma. Allele-specific oligonucleotide (ASO) primers used for detecting polymorphisms in the SCYA24 gene are represented in ABLS7616-ABLS7645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention describes an isolated polynucleotide, which comprises genes
                                                                                                                 New genetic variants of small inducible cytokine subfamily A member 24 gene, useful in studying expression and function of the protein, and for screening drugs to treat diseases such as asthma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Small inducible cytokine subfamily A (Cys-Cys) member 21; SCYA21; polymorphism; haplotype; immunological disorder; gene expression; drug development; immunomodulator; allele specific oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 11; DB 1; Length 15; 100.0%; Pred. No. 8.1e+02; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SCYA21 gene allele specific oligonucleotide primer #7.
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 1 A; 3 C; 5 G; 5 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 14; Page 13; 56pp; English.
                                                                                                                                                                                        Claim 16; Page 14; 98pp; English
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                (GENA-) GENAISSANCE PHARM INC.
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                                                                                  WPI; 2002-351785/38
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                                                  Anastasio AE,
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and haplotypes of the small inducible cytokine subfamily A (Cys-Cys),
member 21 (SCYA21) gene. The polymucleotide comprises polymorphic sites
referred to as PSI-5 to designate the order in which they are located in
the gene. The polymorphisms and haplotypes of SCYA21 gene are useful for
validating whether SCYA21 is a suitable target for drugs to treat
immunological disorders and disorders associated with its abnormal
expression or function, screening for such drugs and reducing bias in
clinical trials of such drugs. Haplotype information would be useful in
improving the efficiency and output of several steps in the drug
discovery and development process, including target validation,
identifying lead compounds and early phase clinical trials. The methods
are useful in screening for compounds targetting SCYA21 to treat a
specific condition or disease predicted to be associated with SCYA21
cativity, e.g. immunological disorders. This sequence represents an
clinical psecific oligonucleotide primer used to identify polymorphic sites
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention describes an isolated human pyridoxal (pyridoxine, vitamin B6) kinase, (PDXK) polynucleotide. The polynucleotide is useful in studying the expression and function of PDXK, and in expressing PDXK protein for use in screening for candidate drugs to treat PDXK related diseases and for therapeutic purposes. A transgenic animal is useful for studying expression of the PDXK isogenes in vivo, for in vivo screening and testing of drugs targeted against PDXK protein, and for testing the efficacy of therapeutic against PDXK protein, and for testing the efficacy of therapeutic against and compounds for autoimmune polyglandular disease type 1. The polypeptide is useful for studying the effect of the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pyridoxal kinase, pyridoxine, vitamin B6;
PDXK autoimmune polyglandular disease type 1; transgenic animal;
gene therapy; allele specific oligonucleotide; ASO; PCR primer; s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pyridoxal (Pyridoxine, vitamin B6) Kinase (PDXK) PCR primer #19.
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0
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11; Conservat
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                                                                                                                                                                                                                                                                                                                                    in the SCYA21 gene
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Best Local &
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Gaps

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variation on the biological activity of PDXK and the binding affinity of candidate drugs targeting PDXK for the treatment of autoimmune bolyglandular disease type 1. Genotyping and haplotyping is useful for improving the efficacy and reliability of several steps in the discovery and development of drugs for treating diseases associated with PDXK activity, e.g., autoimmune polyglandular disease type 1, to validate PDXK as a candidate agent for treating a specific condition or disease predicted to be associated with PDXK activity, and in the design of clinical trials of candidate drugs. This sequence is one of 37 (see ABKEGGHI-ABKIGST) allels specific oligonucleotide (ABO) PCR primers used the activity and in the drugs of the mother of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for detecting PDXK gene polymorphisms, described in the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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Matches
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AAD26886 standard; DNA; 15 RESULT 1446 AAD2688

AAD26886;

Human GPR4 isogene fragment #8

(first entry)

26-MAR-2002

Human; G-protein coupled receptor 4; GPR4; haplotyping; polymorphism; allele-specific oligonucleotide; ASO; ds.

Homo sapiens.

WO200187904-A2.

22-NOV-2001

09-MAY-2001; 2001WO-US015097.

7-MAY-2000; 2000US-0204928P

(GENA-) GENAISSANCE PHARM INC.

Kazemi A, Duda AE,

Koshy B; Bentivegna SC,

WPI; 2002-097579/13

Haplotyping, (H1), the G-protein coupled receptor 4 (GPR4) gene of an individual, comprising determining which haplotype an individual.

Example 2; Page 31; 61pp; English.

The invention relates to G-protein coupled receptor 4 (GPR4) gene variants. The data about the GPR4 polynucleotides and polypeptides and the polymorphisms associated with them are useful for haplotyping at the GPR4 locus. Allele-specific oligonucleotide (ASO) is useful as probes and primers for assaying a polymorphism in GPR4 gene. The present sequence is human GPR4 isogene fragment

Sequence 15 BP; 4 A; 7 C; 2 G; 2 T; 0 U; 0 Other;

Gaps . 0 Query Match 0.5%; Score 11; DB 1; Length 15; Best Local Similarity 100.0%; Pred. No. 8.1e+02; Matches 11; Conservative 0; Mismatches 0; Indels

1249 GACCCCATCCC 1259

à

4 GACCCCATCCC 14

g

RESULT 14 AAS99152/

BP. AAS99152 standard; DNA; 15

AAS99152;

(first entry) 12-MAR-2002

UDP glycosyltransferase 1 (UGT1A1) allele-specific oligonucleotide #19

UDP glycosyltransferase 1; UGT1A1; human; haplotyping; ss; drug discovery; Gilbert's syndrome; Crigler-Najjar syndrome; allele-specific oligonucleotide.

Homo sapiens.

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WO200179230-A2

25-OCT-2001.

13-APR-2001; 2001WO-US012273.

(GENA-) GENAISSANCE PHARM INC 18-APR-2000; 2000US-0197514P.

Koshy B, Rounds E; Choi JY, Chew A,

WPI; 2002-075063/10.

Genotyping a human UDP glycosyltransferase 1 gene of an individual for determining the haplotype of an individual, involves determining the identity of a nucleotide pair at specific polymorphic sites for two copies of the gene.

Claim 16; Page 13; 81pp; English.

The invention relates to genotyping a human UDP glycosyltransferase (UGTIA1) gene of an individual, involving determining for the two copies of the UGTIA1 gene present in the individual, the identity of the two copies or collectide pairs of the individual has a haplotype or haplotype or pairs, given in the specification. It is useful for improving the efficacy and reliability of several steps in the discovery and development of drugs for treating diseases associated with UGTIA1 or cativity, e.g., Gilbert's syndrome and Crigler-Najjar syndrome, to validate UGTIA1 as a candidate agent for treating a specific condition or validate UGTIA1 as a candidate agent for treating a specific condition or disease predicted to be associated with UGTIA1 activity. The condition or disease predicted to be associated with UGTIA1 activity. In the condition or disease sectiated to far a cright UGTIA1 activity. A nucleic condition or disease sectiated out UGTIA1 activity. A nucleic specific condition or disease sectiated with UGTIA1 activity. A nucleic condition or disease sectiated by a seful in studying the corporation of uginal proving the corporation of uginal, and in expressing UGTIA1 protein for expression and function of use in screening for candidate drugs to treat diseases related to UGTIA1 corporation of uginal, and in expressing UGTIA1 protein for recombinant organism comprising (II) is useful for testing and testing of drugs creampentic agents and compounds for Gilbert's syndrome, in a biological system. Assessing the therapeutic agents and compounds for testing the efficacy of therapeutic agents and compounds for cities of syndrome and Crigler-conditions in the surface of the ugents and compounds for gilbert's syndrome, in a biological system. Assessing the therapeutic agents and compounds for gilbert's syndrome, in a biological system. Assessing the processing in the

Sequence 15 BP; 3 A; 4 C; 4 G; 3 T; 0 U; 1 Other;

.. 0 0.5%; Score 11; DB 1; Length 15; 34.6%; Pred. No. 8.1e+02; lve 1; Mismatches 1; Indels 84.68; Conservative Best_Local Similarity Matches 11; Conserv Query Match

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Gaps

/*tag= a /note= "polymorphic site indicated by an ambiguity base"

Location/Qualifiers

misc_feature

Homo sapiens

Human, solute carrier family 18 member 2; SLC18A2; vesicular monoa vesicular monoamine transporter; VAAT2; polymorphic site; SNP; single nucleotide polymorphism; antiinflammatory; neuroleptic; haplotyping; genotyping; respiratory inflammatory disease; neuropsychiatric disorder; monoaminergic brain system; primer; ss.

Human SLC18A2 allele specific oligonucleotide primer SEQ ID NO:41.

(first entry)

11-JUL-2002

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The present invention describes a method for identifying oligonucleotides with desired hybridisation properties to nucleic acid targets containing secondary structure. The method comprises amplifying a target nucleic acid having at least one accessible and one inaccessible site. Primers that form an extension product are identified as the oligonucleotides which can interact with the folded target nucleic acid. Oligonucleotides from the present invention can be used in novel detection methods for clinical diagnostic purposes, including the detection and identification of pathogenic organisms (e.g. HIV). The method allows the ability to rapidly analyse nucleic acid structures. ABIA6034 to ABIA6367 represent sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                               Identifying oligonuclectides hybridizing to nucleic acids containing secondary structure, useful in clinical diagnosis, comprises identifying primers that interact with the target to form an extension product under
                                                                                                                                                                 Nucleic acid accessible hybridisation site; detection, hybridisation; characterisation; identification; nucleic acid structure; diagnosis; PCR primer; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 11; DB 1; Length 15; Pred. No. 8.1e+02; 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 6 A; 3 C; 5 G; 1 T; 0 U; 0 Other;
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                                                                                                                                                   Rat CX3CR1 oligonucleotide SEQ ID NO:288
                                                                                                                                                                                                                                                                                                                                                   (THIR-) THIRD WAVE TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 48; Fig 80A; 409pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.5%; 8
                                                                                    ABL46321 standard; DNA; 15 BP.
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2001US-00212308.
                                                                                                                                                                                                                                                                                             15-JUN-2001; 2001WO-US019401
                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  amplification conditions
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           1081 ACTCCAGGCTTCA
                                15 AYTCCAGGCTGCA
                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-049698/06.
                                                                                                                                                                                                                                                    WO200198537-A2
                                                                                                                                                                                                                                                                                                                   .7-JUN-2000;
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                                                                                                                               26-APR-2002
                                                                                                                                                                                                                                                                        27-DEC-2001
                                                                                                                                                                                                                    Rattus sp.
Synthetic.
                                                                                                            ABL46321;
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Best Local
                                                                  RESULT 1448
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Novel genetic variants of soluble carrier family 18 (vesicular monoamine), member 2 gene useful for screening drugs to treat diseases e.g. neuropsychiatric disorders involving monoaminergic brain systems.

Claim 17; Page 14; 183pp; English.

Sausker EA;

Kliem SE,

Anastasio AE, Han J, WPI; 2002-393942/42.

(GENA-) GENAISSANCE PHARM INC

17-SEP-2001; 2001WO-US042217.

WO200222652-A2

21-MAR-2002.

2000US-0232895P.

15-SEP-2000;

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The present invention describes an isolated polymucleotide (I) having a sequence (SI) comprising soluble carrier family 18 (vesicular monoamine), member 2 (SiclaBA2) isogenes with regions of a sequence (SS) of 40023 bp (see ABL1954), and defined by a corresponding set of polymorphisms whose locations and identities are given in the specification; or a sequence (S2) complementary to (S1). (I) has cutinification; or a sequence (S2) complementary to (S1). (I) has antiinflammatory and neuroleptic activities, and can be used in gene therapy. Methods from the present invention can be used for haplotyping and genotyping the SIC18A2 gene in an individual. SIC18A2 is also known as the vesicular monoamine transporter (VMAT2). (I) is useful in studying the expression and function of SIC18A2, and in expressing the SIC18A2 cativity and in studying the effect of the variation on the biological activity of SIC18A2 as well as on the binding affinity of candidate drugs to treatment of respiratory inflammatory diseases such as neuropsychiatric disorders involving monoaminergic brain systems. The present sequence represents an allele specific incommentation (ASO) primer for human SIC18A2, which is given in the biological activity of the complements and allele such as the present sequence represents and allele such as the properties of the page of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 5 A; 5 C; 3 G; 1 T; 0 U; 1 Other;
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84.6%; Pred. No. 8.1e+02;
iive 1; Mismatches 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 ACCAGCCACAGAR 14
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Matches 11, Conservative
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11; Conservative

Similarity

971 GGAAGTCCAAG 981

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ABL51993 standard; DNA; 15 BP.

RESULT 1449
ABL51993
ID ABL51993
XX
AC ABL51993

ABL51993

12-APR-2000; 2000US-0196734P. 12-APR-2001; 2001WO-US011942

WO200179221-A2

25-OCT-2001.

(first entry)

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Human; single nucleotide polymorphism; SNP; RANGAP1; paplotyphing chromosome 25413.2413.31; Ran GTPase activating protein 1; genotyping; cancer; irregular cell cycle associated disorder; ASO; probe; ss; allele-specific oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genotyping human Ran GTPase activating protein 1 gene of individual for determining haplotype of individual, involves determining identity of nucleotide pair at specific polymorphic sites for two copies of the gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to novel single nucleotide polymorphisms (SNPs) in the human Ran GTPase activating protein 1 (RANGAPI) gene located on chromosome 22413.2-413.1, and methods for haplotyping and/or genotyping the RANGAPI gene. The methods of the invention make use of allele-specific oligonucleotides (ASOs) as probes and primers and/or primer-extension oligonucleotides for detecting the RANGAPI gene polymorphisms. The polymucleotides and screened compounds are useful for treatment of diseases associated with RANGAPI activity, such as cancer and other disorders associated with an irregular cell cycle. AAS19704-AAS19742, represent ASO probes for detecting human RANGAPI gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human, interleukin 8 receptor beta, IL8RB; ss; antinflammatory, probe; haplotypping, haplotype pair, single nucleotide polymorphism; genotyping; gene therapy, drug screening; chronic obstructive pulmonary disease; inflammatory disease; sequencing primer; PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human IL8RB gene allele-specific oligonucleotide sequencing primer #11
                                                                      ASO probe #35 to detect human RANGAP1 gene polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 3 A; 6 C; 3 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 15; Page 14; 148pp; English
                                                                                                                                                                                                                                                                                                                                                                              (GENA-) GENAISSANCE PHARM INC.
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                                                                                                                                                                                                                                                                                                     17-APR-2001; 2001WO-US012455
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Best Local Similarity 84.6%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       743 ACACCGTGTGCAC 755
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                                  08-MAY-2002
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 AAS19738;
                                                                                                                                                                                                                                                                                                                                                                                                                  Chew A,
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The invention relates to single nucleotide polymorphisms in the human interleukin 8 receptor beta (IL8RB) gene. A method for haplotyping the interleukin 8 receptor beta (IL8RB) gene. A method for haplotyping the confident or more polymorphic sites and determining whether one of the copies of the gene is defined by an an individual comprises identifying the nucleotide at one or more polymorphic sites and determining whether one of the copies of the gene is defined by a haplotype pair.

CC specification or whether both copies are defined by a haplotype pair.

CC specification or whether both or passociation between a trait and comparing the frequency of the IL8RB gene can be identified by comparing the frequency of the haplotype pair in a comparing the trait with the frequency of the haplotype or haplotype or haplotype or haplotype pair in a reference population, where a higher haplotype or haplotype pair. In a corresponding by the trait population indicates the trait is associated with the haplotype or haplotype pair. InsRBB and its corresponding by corresponding by are used for studying the expression and function of ILBRB, for use in screening or confident edurgs to treat diseases related to ILBRB activity, such as chronic obstructive pulmonary diseases related to ILBRB activity, such as confident edurgs targeting ILBRB, sequences AAS95525-AAS95579 represent candidate drugs targeting ILBRB as well as on the binding affinity of allele-specific oligonucleotide probes, sequencing primers and PCR primers used to detect ILBRB gene polymorphisms
                                                                                                                                                                                                                                                                                              New polymorphic variants comprising interleukin-8 receptor beta (ILBRB) isogene, useful in expressing ILBRB protein for use in screening for candidate drugs to treat diseases related to ILBRB activity, e.g. inflammatory disorders.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ASO primer #2, used to detect human ADRB3 gene polymorphisms.
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0.5%; Score 11; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 8.1e+02;
Matches 11; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                               Denton RR, Nandabalan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 3 A; 8 C; 1 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                   Choi JY,
                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 16; Page 13; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABK11466 standard; DNA; 15 BP
                                                                                                                                                                       (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1257 CCCCAACCCCTT 1269
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                                                                                                                                                                                                                   Chew A,
                                                                                                                                                                                                                                                             WPI; 2002-055250/07.
                                                                                                                                                                                                                   Bentivegna SC,
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0; Gaps

0.5%; Score 11; DB 1; Length 15; 44.6%; Pred. No. 8.1e+02; ve 1; Mismatches 1; Indels

(first entry)

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The present invention relates to a new polypeptide comprising a sequence which is a polymorphic variant of a reference sequence for ADRB3 (Deta-3-denence) configuration acids as given in the specification, or its fragment, and the open comprises a sequence of 408 amino acids as given in the specification, or its fragment, and the opportion variant comprises one or more variant amino acids. The polymorphic variants are useful in studying the expression and function of ADRB3, in expression and ADRB3 protein for use in screening for candidate drugs to treat diseases related to ADRB3 activity, in studying the effect of the variation on the biological activity of ADRB3, and the binding affinity of candidate drugs targeting ADRB3 for the treatment of disorders and an early onset of non-insulin-dependent diabetes mellitus. Haplotyping methods are useful in validating ADRB3 as a candidate target for treating a specific condition or disease predicted to be associated with ADRB3 activity, or in the design of clinical trials of candidate drugs for treating a specific onclinical trials of candidate drugs for treating a specific oligonucleotide (ASO) primers (ASK11465- ABK11488) that were used in the methods of the invention to detect polymorphisms in the human ADRB3 gene
                                                                                                                                                                                                                                                                                                     Novel genetic variants of beta-3-adrenergic receptor gene useful in studying expression and function of the protein, and for screening drugs to treat diseases e.g. obesity, non-insulin dependent diabetes mellitus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 15 BP; 2 A; 9 C; 0 G; 3 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                            Claim 17; Page 14; 91pp; English
                                                                                                                                                                 (GENA-) GENAISSANCE PHARM INC.
                                                                     23-JUL-2001; 2001WO-US023223
                                                                                                                     21-JUL-2000; 2000US-0220088P.
                                                                                                                                                                                                                                                                  WPI; 2002-241571/29.
                                                                                                                                                                                                                 Koshy B;
                         31-JAN-2002.
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0.5%; Score 11; DB 1; Length 15; 44.6%; Pred. No. 8.1e+02; ve 1; Mismatches 1; Indels
    Query Match 0.5%;
Best Local Similarity 84.6%;
Matches 11; Conservative
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1252 CCCATCCCCAACC 1264 2 CCCATCCCCACCY 14 à

AAS94602 standard; DNA; 15 BP. (first entry) 14-FEB-2002 AAS94602; RESULT 1453 AAS94602,

Human PLTP gene allele-specific oligonucleotide sequencing primer #11

Human; phospholipid transfer protein; PLTP; haplotyping; haplotype pair; single nucleotide polymorphism; genotyping; gene therapy; drug screening; binding affinity; atherosclerosis; ss; sequencing primer; PCR primer; probe.

Homo sapiens.

WO200172966-A2

04-OCT-2001.

26-MAR-2001; 2001WO-US009776.

24-MAR-2000; 2000US-0192127P.

(GENA-) GENAISSANCE PHARM INC.

Choi JY, Chew A,

WPI; 2002-010724/01.

New isolated polynucleotide which is polymorphic variant of phospholipid transfer protein (PLTP) gene, having any one of polymorphic sites PS1-PS25, for studying function of PLTP, and expressing PLTP protein.

Claim 15; Page 73; 99pp; English

The invention relates to single nucleotide polymorphisms in the gene encoding the human phospholipid transfer protein (PLTP). A method for encoding the purp gene in an individual comprises identifying the nucleotide at one or more polymorphic sites and determining whether one of the copies of the gene in an individual comprises identifying the copies of the gene is defined by one of the PLTP haplotypes given in the specification or whether both copies are defined by a haplotype or pair: This method is useful in genotyping, whereby all possible haplotype or pairs can be assigned to specific genotypes. An association between a trait and a haplotype or haplotype pair of the haplotype or the trait with the frequency of the haplotype or haplotype or the trait oppulation indicates the trait is associated with the trait population indicates the trait is associated with the trait population indicates the trait is associated with the trait population indicates the trait is associated with the sequence are also useful for studying the effect of variation on the sequences are also useful for studying the effect of variation on the candidate drugs targeting PLTP for treating atherosolerosis. Sequences the represent allele-specific oligonucleotide probes, or many interest and PCR primers used for detecting PLTP gene

Sequence 15 BP; 2 A; 5 C; 5 G; 2 T; 0 U; 1 Other;

Gaps . 0 Query Match
0.5%; Score 11; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 8.1e+02;
Matches 11; Conservative 1; Mismatches 1; Indels

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ABX01272 standard; RNA; 15 BP. 23-DEC-2002 (first entry) ABX01272; RESULT 1454

Hepatitis C virus substrate #1054 for HCV hammerhead ribozyme #1054.

Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection; HCV ribozyme; HCV expression; HCV replication; cirrhosis; virucide; liver failure; hepatocellular carcinoma; HCV infection; drug therapy; type I interferon; interferon alpha; interferon beta; cytostatic; interferon gamma; consensus interferon; hepatotropic; autiinflammatory; substrate; hammerhead ribozyme; HH ribozyme; ss.

Hepatitis C virus.

US2002082225-A1.

27-JUN-2002

99US-00274553 23-MAR-1999;

Gaps

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(BLAT/) (MCSW/)

ROBE/)

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Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5 or 3 and semenic flanking regions, 5 and 3 intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antinfilammatory steroid and ubiquinone. A composition of the invention has antilinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a
                                                                                    ABQ84043 to ABQ84083 represent specifically claimed DNA probes which can be used in a deoxyribonucleic acid (DNA) chip (I) comprising 12-100 DNA probes fixed to a glass plate, silicon chip, membrane or high-molecular material. (I) is useful for diagnosing tubercle bacillus and its drug tolerance. (I) has a high diagnosing efficiency and accuracy, low cost and short detection time. The present sequence represents an rpoB probe which is used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human, antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory; antiallergic; antiinflammatory; antiallergic; antiasthmatic; hypotensive; foreimmunosuppressive; oytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.
DNA chip for diagnosing tubercle bacillus and its drug tolerance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Aguilar
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                                                                                                                                                                                                                                                                                Sequence 15 BP; 1 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Katz E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human C/EBP antisense fragment no.2204.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Li Y, Sandrasagra A, Ka
Tang L, Shahabuddin S;
                                               Disclosure; Fig 2; 15pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABZ96344 standard; DNA; 15 BP
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                                                                                                                                                                                                                                                                                                                                                   Similarity
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Miller S,
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Best Local S:
Matches 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 1456
ABZ96344
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                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The cargumetic nucleic acid or ribozyme is in a harmerhead (HH) or hairpin C (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV concluding the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or repplication of hepatocellular carcinoma. The HCV inbeging are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon, especially interferon alpha, beta or gamma or consensus interferon. The present sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note: Some of the sequence data for this patent did not form part of the printed specification. The complete sequence data for this patent was contained in electronic format directly from the USPTO web site at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;
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                                                                                                                                                                                                                                                                              New ribozymes targeting RNA derived from hepatitis C virus inhibit viral replication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       diagnosis; probe; rpoB; DNA chip; drug tolerance;
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                                                                                                                                                                                         Pavco PA, Macejack D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 11; DB 1; Length 15;
11.8%; Pred. No. 8.1e+02;
ve 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Seguence 15 BP; 3 A; 7 C; 2 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 seqdata.uspto.gov/psipsDIDEntry.html
                                                                                                                                                                                            Roberts B,
                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 51; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABQ84097 standard; DNA; 15 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-OCT-2000; 2000CN-00133796
       99US-00274553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 81.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         974 AGTCCAAGCTC 984
                                                                                                                                                                                            Blatt L, Mcswiggen JA,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                deoxyribonucleic acid
                                                 BLATT L.
MCSWIGGEN J A.
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                                                                                                                                                                                                                                         WPI; 2002-617759/66
                                                                                              ROBERTS B. PAVCO P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tubercle bacillus;
                                                                                                                      PAVC/) PAVCO P A. MACE/) MACEJACK D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RpoB probe M36
    23-MAR-1999;
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RESULT 1455 ABQ84097/c

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Gaps

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Indels

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Mismatches

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11; Conservative

Matches

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use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of or cadeling sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject stissue, or treating bronchoconstriction, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Microarray; probe; Mycobacterium; antibiotic-resistance; genotyping; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mycobacterium antibiotic resistance differentiating probe rpo 531-MW1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Microarray for simultaneously genotyping Mycobacteria species, differentiating Mycobacterium tuberculosis strains and detecting antibiotic-resistant strains, comprises specific probes on a support.
                                                                                                                                                                                                                                                                                                                   Gaps
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                                                                                                                                                                                                                                                                           0.5%; Score 11; DB 1; Length 15; 80.0%; Pred. No. 8.1e+02; ive 1; Mismatches 2; Indels
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                                                                                                                                                                                                                                        Seguence 15 BP; 0 A; 8 C; 4 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Song E;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 14; Page 71; 76pp; English.
                                                                                                                                                                                                                                                                                                                                                        1240 CTCGCCTCCGACCCC 1254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-OCT-2002; 2002WO-KR001885.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-0CT-2001; 2001KR-00062125.
                                                                                                                                                                                                                                                                                                                                                                                              1 crcecrracecece 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACC73426 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUHI-) SJ HIGHTECH CO LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Park H, Jang H,
                                                                                                                                                                                                                                                                                              Local Similarity 80.0
les 12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mycobacterium sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #O2003031654-A1.
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(PARK/) PARK H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-JUL-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-APR-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACC73426;
                                                                                                                                                                                                                                                                                  Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 1457
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New nucleoside triphosphate compound for use in inhibiting gene expression and in human therapy, such as, for the treatment of cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                               Zinzyme; ss; K-ras; human; gene therapy; cytostatic; catalytic RNA; gene expression; cancer; HER-2.
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100.0%; Pred. No. 8.18+02;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 2 A; 4 C; 8 G; 0 T; 1 U; 0 Other;
                                                                                                                                                                                                         K-ras targeting zinzyme substrate sequence #12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 3; SEQ ID NO 12; 100pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                               05-NOV-1997; 97US-0064866P.
29-APR-1998; 98US-0083727P.
04-NOV-1999; 98US-00186675.
28-APR-1999; 99US-0047432.
33-DEC-1999; 99US-0047432.
33-DEC-1999; 99US-00476387.
23-MAY-2000; 2000US-00578223.
04-APR-2001; 2001US-00825805.
                                                                                                              BP.
                                                                                                                                                                                                                                                                                                                                                                                                    2001US-0091872B
                                                                                                             ADD15803 standard; RNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      target/substrate sequence.
                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.5
Best Local Similarity 100.
Matches 11; Conservative
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1284 CAGCGCCCACA
                                  CAGCGCCCACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (BEIG/) BEIGELMAN L.
(ZINN/) ZINNEN S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-801249/75.
                                                                                                                                                                                                                                                                                                                                       US2003105308-A1.
                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                    31-JUL-2001;
                                                                                                                                                                            15-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                       05-JUN-2003.
                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                             ADD15803;
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                                                                                 RESULT 1458
                                                                                               ADD15803
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RESULT 1459

0.5%; Score 11; DB 1; Length 15; 100.0%; Pred. No. 8.1e+02;

Query Match Best Local Similarity

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Example 2; Page 7; 50pp; English
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                                                                                                                                              AAV72786 standard; DNA; 18
                                                                                                                                                                                                    (first entry)
                                                   1873 CTATGCCTCAT 1883
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                        Conservative
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CUAUGCCUCAU 11
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           Best Local Similarity
Matches 7; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                           24-MAR-1997;
                                                                                                                                                                                                    17-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                     01'-OCT-1998.
                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reiter RS;
                                                                                                                                                                                                                                                                                                                  Zea mays.
                                                                                                                                                                          AAV72786;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Query Match
                                                                                                                      RESULT 1460
                                                                                                                                    AAV72786
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HVV) or Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes, amberzymes, amberzymes, and G-cleaver ribozymes, DNAzymes, are incleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase primar sequences, as well as oligomucleotides that specifically bind the Enhancer I region of HBV genes and/or HBV verse transcriptase primar sequences, as well as oligomucleotides that specifically bind the Enhancer I region of HBV genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HBV. The compounds and methods of the invention are useful for the treatment of degenerative and disease states related to HBV and HCV infection, replication and gene carcinoma. The present sequence represents a substrate for one of the HBV enzymatic nucleic acid sequence represents a substrate for one of the HBV enzymatic nucleic acid sequences disclosed in the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel compound useful for treating cirrhosis, liver failure, hepatocellular carcinoma, or condition associated with hepatitis C virus
                                                                                                                   Nucleic acid molecule, Hepatitis C virus, HCV; Hepatitis B virus, HBV; RNA stability; RNA expression; RNA synthesis; antisense; enzymatic nucleic acid, hammerhead ribozyme; DNAzyme; inozyme; amberzyme; G-cleaver ribozyme; decoy molecule; aptamer; HBV reverse transcriptase; Enhancer I region; viral replication; degemerative, disease state, HBV infection; HCV infection; cirrhosis; liver failure; hepatocellular carcinoma; hepatotropic; cytostatic; virucide; antiinflammatory; substrate; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pavco P,
                                                                                             HBV enzymatic nucleic acid substrate sequence #89.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 2 A; 6 C; 1 G; 0 T; 6 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mcswiggen J,
             ACD56200 standard; RNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                        26-MAR-2001, 2001US-00817879.
08-JUN-2001, 2001US-028876P.
48-JUN-2001, 2001US-0296876P.
24-OCT-2001, 2001US-0335059P.
05-DEC-2001, 2001US-0337055P.
                                                                                                                                                                                                                                                                                                                               26-MAR-2002; 2002WO-US009187
                                                                                                                                                                                                                                                                                                                                                                                                                                           RIBOZYME PHARM INC.
                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roberts E;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      BLATT L.
MACEJAK D.
MCSWIGGEN J.
MORRISSEY D.
PAVCO P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Macejak D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-229207/22.
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                                                                                                                                                                                                                                             Hepatitis B virus.
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DRAPER K.
                                                                                                                                                                                                                                                                          WO200281494-A1.
                                                                   24-SEP-2003
                                                                                                                                                                                                                                                                                                     17-0CT-2002.
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Draper K,
                                        ACD56200;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      (BLAT/)
(MACE/)
(MCSW/)
(MORR/)
(PAVC/)
(LEEP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                           RIBO-)
                8XCCCCCCCCCCCCCCCCX8X1414X8X11X323232323X13X3333X6X3X6X3X8X3X3X8X3X8X3X8X3X8X3X8X
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A new method has been developed of breeding for corn with increased corn kernel oil concentration. The method comprises: (a) selecting a corn plant from a breeding population using at least one of the genetic compares 81375, 81384, 81394, 81416, 81432, 81457, 81480, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81476, 81477, 81876, 81477, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81876, 81977, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 81877, 818777, 81877, 81877, 818777, 81877, 818777, 818777, 818777, 818
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Corn; kernel oil; concentration; trait controlling loci; genetic marker;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Corn kernel oil concentration controlling loci marker 82097 primer 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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0.5%; Score 11; DB 1; Length 15; 63.6%; Pred. No. 8.1e+02; ive 4; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 18 BP; 5 A; 3 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zea mays; breeding; PCR primer; ss.
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AAD27475;

RESULT 1461

AAD2747

ntron.

exon

exon

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AAZ65654 to AAZ69578 represent human biallelic markers, from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification of primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the defence in the characterisation of the pharmaceutical agents acting on a disease as well as other treatment.

Diagnostic are contained as sequence in the Sequence Listing from the resease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              S60 antigen; protozoacide; vaccine; intestinal infection; diarrhoea;
                                                                                             Human biallelic marker upstream amplification primer SEQ ID NO:7262.
                                                                                                                                    Human genome, biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cryptosporidium parvum S60 gene sequencing PCR primer, S15.R11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match

0.5%; Score 11; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.4e+03;
Matches 14; Conservative 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19 BP; 1 A; 6 C; 4 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chumakov I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 9; Page 1779; 2745pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         107 IGATCTCTATGCCCGAGTC 125
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                                                                                                                                                                                                                                                                                                                                                                                                      99WO-IB000822.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cohen D, Blumenfeld M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                map of the human genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-013267/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GEST ) GENSET.
                                                                                                                                                                                                                                  diagnosis; ss
                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                  W09954500-A2.
                                                                                                                                                                                                                                                                                                                                                                                                    21-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-SEP-2001
                                                           10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                           28-OCT-1999
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                    AAZ72906;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1463
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a mammalian K+ channel protein with two pore domains, called TREX2 (TWIK-Related K+ Channel). The protein produces reurents whose current-voltage relationship is slightly inwardly rectifying in high symmetrical K+ conditions. TREK2 is a member of the fatty acid-activated and mechanosensitive K+ channel family. TREK-2 gene footed on chromosome 1431 is abundantly expressed in Kidney, pencreas and moderately in testis, brain, colon and small intestine. The mammalian K+ channel protein is useful in methods for screening various compounds. In particular, the protein is useful in methods for identifying biologically active compounds with anaesthetic properties. The present sequence is reverse transcription (RT) PCR primer used for analysing human TREK-2 gene exon-intron-exon DNA sequence used in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New mammalian K+ channel protein with two pore domains, for screening various compounds, particularly for identifying biologically active compounds with anesthetic properties.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                    Human; TWIK-Related K+ Channel-2; TREK-2; anaesthetic; screening; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ó,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 11; DB 1; Length 19;
Pred. No. 1.4e+03;
0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 19 BP; 3 A; 7 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 0.5%; Score 11; DB Best Local Similarity 73.7%; Pred. No. 1.4e Matches 14; Conservative 0; Mismatches
                                                                                                                                                                                                                  Human TREK-2 gene exon-intron 1-exon DNA
                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure, Fig 1B; 50pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Romey G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           873 GGACTCAGGCACCACAGTG 891
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                                                                                    AAD27475 standard; DNA; 19 BP.
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2001US-00892360.
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AAZ72906
ID AAZ72906 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                  1. .2
/*tag= a
3. .17
/*tag= b
/number= 1
18. .19
/*tag= c
                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                         18-APR-2002
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WPI; 2001-138370/14.
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ID ABK1
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                                                                                                                                                                                                                      The invention relates to Cryptosporidium parvum S60 potential vaccine antigen and its corresponding DNA molecule. S60 antigens are used in vaccine preparations for immunising animals, preferably human, against Cryptosporidium. The S60 protein is processed into two glycoproteins S15 and S45. This S45 and S15 glycoproteins behave as a single membrane glycoprotein S60. S60 vaccine antigen is used for treating intestinal infections such as diarrhoea in immunosuppressed patients e.g., AIDS fragulized Immune Deficiency Syndrome), cancer patients and recipients of sequencing Cryptosporidium parvum S60 gene
                                                                                                                                                                  ucleic acids encoding antigenic polypeptides of Cryptosporidium in antigenic preparations for immunizing animals against
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA polymerase gene; anti-HBV drug resistance;
                                                                                                                                                                                                                                                                                                                                                                  Gaps
AIDS; Acquired Immune Deficiency Syndrome; cancer; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                  .;
o
                                                                                                                                                                                                                                                                                                                                              0.5%; Score 11; DB 1; Length 19; 73.7%; Pred. No. 1.40+03; ive 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                            Sequence 19 BP; 6 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                               Gooley AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HBV DNA polymerase gene PCR primer HBPr135B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Van Geyt C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mutation detection; PCR primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                   GTGCTCCTGGAGCTGTTGG 313
                                                                                                                               Williams
                                                                                                                                                                                                                                                                                                                                                                                                     19 Gregracreaagerrered 1
                                                                                                                                                                                                      Example; Fig 6; 72pp; English.
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                                                                        01-DEC-2000; 2000WO-AU001492.
                                                                                           99AU-00004400.
                                                                                                                                                                   Novel nucleic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-JUL-2000; 2000WO-EP006306
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99US-0143546P
                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF56086 standard; DNA; 20
                                                                                                             (MACQ-) MACQUARIE RES LTD
                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Maertens G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HBV; hepatitis B virus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (INNO-) INNOGENETICS NV
                 Cryptosporidium parvum.
                                                                                                                              Slade MB,
                                                                                                                                                WPI; 2001-408274/43.
                                                                                                                                                                                                                                                                                                                                                        Local Similarity
es 14; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hepatitis B virus.
                                                                                                                                                                                   Cryptosporidium.
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                                   WO200140248-A1
                                                                                           01-DEC-1999;
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13-JUL-1999;
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                                                      07-JUN-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAF56086;
                                                                                                                                                                                                                                                                                                                                                                                   295
                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                               Winter
                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1464
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Matches
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                                                                                                                                                                                                                           The present sequence is a primer used in a method for monitoring antihepatitis B virus (HBV) drug resistance in a patient by genetic detection of any one of mutations L528M, M552V/I and/or V/L/M555I in HBV DNA polymerase in a biological sample from the patient. The method is useful in the field of genetic detection of anti-HBV drug resistance during HBV therapy. The method is rapid, reliable and precise
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Making and refolding insoluble or aggregated proteins having free cysteine by exposing host cell expressing protein to cysteine blocking agent, and exposing to cysteine reactive group to increase their effectiveness.
Monitoring anti-HBV drug resistance by genetic detection of mutations DNA polymerase of HBV in patient's sample, involves hybridizing the polymucleic acids of the sample with a probe and detecting the hybrid.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Protein refolding, growth hormone supergene family, human, m
tHerapeutic half-life, PCR primer, anti-angiogenesis factor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 11; DB 1; Length 20;
Pred. No. 1.6e+03;
0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 12 A; 2 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human protein refolding PCR primer #36.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      566 AATGCCGAAAGGAAATGGG 584
                                                                                                                                                          Claim 4; Page 12; 64pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-NOV-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
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Primer #2 (5'-3618-3639-3', see AAQ32872) was used with minus strand primer # (3'-420-4241-5', see AAQ32874) to amplify exon 4 of the human apolipoprotein E gene. The epsilon 7 mismatch mutation occurs in this region, at position 4141 and 4144. A set of four oligonucleotide probes was prepared to distinguish the wild type from the mutant base at the mismatch position for both the plus and the minus strands. The probe set AAQ32881-2 and AAQ32889-90 hybridises to nucleotides 4136-4149 of ApoB
                                                                                                                                    anchored polymerase chain reaction; APCR; apoE; mismatch; epsilon 2; epsilon 4; epsilon 5; epsilon 7; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Testing apolipoprotein E genotype - using polymerase chain reactor primers and labelled allele-specific oligonucleotide probe for hybridisation to amplified deoxyribonucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.5%; Score 10.8; DB 1; Length 14; 85.7%; Pred. No. 7.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    anchored polymerase chain reaction; APCR; apoE; mismatch;
                                                                                                    Human apolipoprotein epsilon 7 minus-strand probe #19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human apolipoprotein epsilon 7 plus-strand probe #11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 14 BP; 4 A; 2 C; 7 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       epsilon 4; epsilon 5; epsilon 7; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 8; Page 13; 16pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP.
AAQ32889 standard; DNA; 14 BP.
                                                                                                                                                                                                                                                                                                  91JP-00112435.
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                                                                     (first entry)
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nes 12, Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1992-426692/52.
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                                                                     29-APR-1993
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                                                                                                                                                                                              Synthetic.
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                                     AAQ32889;
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Matches
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therapeutics that are attached or for directing delivery of a specific target within the body. Sequences ABK16774-ABK16852 represent PCR primers used in synthesis of the proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This probe is used to screen a human liver cDNA library for the presence of a clone (pFFIXI) contey, the codding information for human factor IX. The recombinant DNA clone is useful for detect- ing mutations or other genetic deficiencies concerned with factor IX. It can also be used to diagnose blood clotting deficiencies e.g. haemophilia B. The use of recombinant DNA methods results in the large scale expression of hFIX polypeptides. See also AAQ10577 and AAQ10579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA coding for human factor IC - used for producing polypeptide and detecting genetic modifications in diagnosing blood clotting deficiencies.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Human factor IX; genetic deficiencies; blood clotting disorders;
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                                                                                                                                                                                                                                                                                                                                                                                                          Probe for detecting human factor IX encoding plasmid clone.
                                                                                                     Score 11; DB 1; Length 24;
Pred. No. 1.9e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2; Indels
                                                                                                                                       0; Indels
                                                                     Sequence 24 BP; 4 A; 8 C; 2 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 14 BP; 2 A; 3 C; 1 G; 8 T; 0 U; 0 Other;
                                                                                   Query Match 0.5%; Score 11; UB
Best Local Similarity 100.0%; Pred. No. 1.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure, Page 7; 12pp; English.
                                                                                                                                                                                                                                                                                                    AAQ10578 standard; DNA; 14 BP.
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86US-00888041.
87US-00094031.
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                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                             12 AGAGAAAACGA 2
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Best Local Similarity
Matches 12; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1991-072901/10.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             haemophilia B; ss.
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18-JUL-1986;
28-AUG-1987;
                                                                                                                                                                                                                                                                                                                                                                          10-MAY-1991
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Gaps

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2; Indels

epsilon 2;

RESULT 1467 AAQ32889/c

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Primer #2 (5'-3618-3639-3', see AAQ32872) was used with minus strand primer #4 (3'-4220-4241-5', see AAQ32874) to amplify exon 4 of the human apolipoprotein E gene. The epsilon 7 mismatch mutation occurs in this region, at position 4141 and 4144. A set of four oligonucleotide probes was prepared to distinguish the wild-type from the mutant base at the mismatch position for both the plus and the minus strands. The probe set AAQ32881-2 and AAQ32889-90 hybridises to nucleotides 4136-4149 of ApoE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The sequence is that of a polynucleotide probe which may be used in the detection of new hypervariable regions (HVR) in a DNA sequence. HVR represent a fingerprint useful in e.g. forensic science, paternity testing, animal breeding, etc. The probe may be used as part of a method for the efficient detection in humans or other animals, without the use of mini-satellites or primary enrichment. (Updated on 25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detecting the hypervariable regions of DNA for diagnosing hereditary illnesses and tumours - by hybridising labelled polynucleotides and analysing genomic DNA of individuals which react with restriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HVR; human; animal; forensic science; paternity testing; diagnosis; animal breeding; hereditary diseases; tumours; allele; loss; chromosomal regions; tumour region identification; ss.
                                                                    Testing apolipoprotein E genotype - using polymerase chain reactor primers and labelled allele=specific oligonucleotide probe for hybridisation to amplified deoxyribonucleic acid.
                                                                                                                                                                                                                                                                                                                                                   0.5%; Score 10.8; DB 1; Length 14; 85.7%; Pred. No. 7.4e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                Sequence 14 BP; 1 A; 7 C; 2 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hypervariable region detection probe 14C14.
                                                                                                                                        Claim 8; Page 12; 16pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example; Page 13; 46pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP.
                                                                                                                                                                                                                                                                                                                                                                                                                      1131 CTTCACCTCCAGCT 1144
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ40608 standard; DNA; 14
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(first entry)
                                                                                                                                                                                                                                                                                                                                                                                        12; Conservative
(NNTR ) NIPPON SHOJI KK
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                                    WPI; 1992-426692/52
                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
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10-AUG-1993
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Gaps

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This sequence represents a probe for a wild type HIV reverse
transcriptase (RT) gene fragment. This sequence can be used in the method
of the invention for determining the susceptibility to antiviral drugs of
viruses which contain RT genes and are present in a biological sample. It
comprises: (1) releasing, isolating or concentrating the polynucleic
acids present in a sample; (2) amplifying the relevant part of the RT
captured acids of step (1) or (2) with at least two RT gene probes,
the probes being applied to known locations on a solid support, and are
capable of simultaneously hybridising to their respective target regions
under appropriate hybridisation and wash condition allowing the detection
of homologous targets, or with the probes hybridising specifically with a
sequence complementary to any of the target sequences; (4) detecting the
hybrids formed in step (3); and (4) inferring the nucleotide sequence at
the codons of interest (codons 38-44, 47-53, 65-72, 73-77, 148-154, 180-
constant isolates involved from the differential hybridisation signals
of viral isolates involved from the differential hybridisation signals
cobtained in step (4). The method is specifically used to detect antiviral
drug resistant strains of viruses containing RT genes, especially HIV
retroviruses and Hepadnaviridae. The method can also be used for
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Reverse transcriptase gene; HIV; RT gene; antiviral drug susceptibility; virus susceptibility; antiviral drug resistant viral strain; retrovirus; Hepadnaviridae; HIV RT genotyping; probe; ss.
                                                                                                                                                                                                      Gaps
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                                                                                                                                         Length 14;
                                                                                                                                                                                                      2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Probe 215m50 for drug induced HIV RT gene G213L214T215.
                                                                Sequence 14 BP; 5 A; 2 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                 Query Match 0.5%; Score 10.8; DB 1; Best Local Similarity 85.7%; Pred. No. 7.4e+02; Matches 12; Conservative 0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Stuyver L, Louwagie J, Rossau
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human immunodeficiency virus 1.
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                                                                                                                                                                                                                                                                                                                             1 CTGAAACGATGGG 14
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   correct PN field.)
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25-JUN-1996;
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AAT 99020

ID 9902020

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Sequence 14 BP; 5 A; 5 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                              RESULT 14
AAT79144/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This sequence represents a probe for a wild type HIV reverse
transcriptase (RT) gene fragment. This sequence can be used in the method
cof the invention for determining the susceptibility to antiviral drugs of
viruses which contain RT genes and are present in a biological sample. It
comprises: (1) releasing, isolating or concentrating the polynucleic
acids present in a sample; (2) amplifying the relevant part of the RT
acids present with at least one suitable primer pair; (3) hybridising the
polynucleic acids of step (1) or (2) with at least two RT gene probes,
the probes being applied to known locations on a solid support, and are
capable of simultaneously hybridising to their respective target regions
under appropriate hybridisation and wash condition allowing the detection
of homologous targets, or with the probes hybridising specifically with a
sequence complementary to any of the target sequences; (4) detecting the
hybrids formed in step (3); and (4) inferring the nucleotide sequence at
the codons of interest (codons 38-44, 47-53, 65-72, 73-77, 148-154, 180-
CC 187, 212-216, and 217-220), and/or the amino acids of the codons of
interest and/or antiviral drug resistence spectrum, and possible the type
of viral isolates involved from the differential hybridisation signals
cobtained in step (4). The method is specifically used to detect antiviral
drug resistant strains of viruses containing RT genes, especially HIV
retroviruses and Hepadmaviridae. The method can also be used for
                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Determining susceptibility to antiviral drugs of reverse transcriptase containing viruses - useful for genotyping HIV RT and detecting antiviral
                                                                                                                                                                                                                                                                                                                       Reverse transcriptase gene; HIV; RT gene; antiviral drug susceptibility; virus susceptibility; antiviral drug resistant viral strain; retrovirus; Hepadnaviridae; HIV RT genotyping; probe; ss.
                                                                         Gaps
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0
                                          Length 14;
                                        ch 0.5%; Score 10.8; DB 1; Length 1-
1 Similarity 85.7%; Pred. No. 7.4e+02;
12; Conservative 0; Mismatches 2; Indels
               Sequence 14 BP; 3 A; 4 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                            Probe 215w22 for wild type HIV RT gene T215.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rossau R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         laim 13; Page 38; 59pp; English.
                                                                                                                                                                                                                                                                                                                                                                                              Human immunodeficiency virus 1.
                                                                                                                                                                                                       AAT98980 standard; DNA; 14 BP.
                                                                                                   1212 GGGGCTGACCCCA 1225
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                                                                                                                              1 GGGGGTTACCACA 14
                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Stuyver L, Louwagie J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1997-393716/36.
                                           Query Match
Best Local Similarity
Matches 12; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             resistant HIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7-JAN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                            WO9727332-A1
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                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                   AAT98980;
                                                                                                                                                                        RESULT 14
AAT98980/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; vascular endothelial growth factor; VEGF; antisense; preparation; oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Method for preparing an anti-sense nucleic acid - useful for preventing expression of a target gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence is an oligonucleotide antisense to human vascular endothelial growth factor (hVEGF) CDNA. It was prepared by hybridising several random nucleotide sequences to DNA or RNA encoding a target protein, i.e. hVEGF CDNA, to obtain hybridising antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                      Gaps
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                      Length 14;
                                                                      2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 14 BP; 2 A; 2 C; 6 G; 4 T; 0 U; 0 Other;
                      Score 10.8; DB 1;
Pred. No. 7.4e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                            Human VEGF cDNA antisense oligonucleotide A089N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example; Page 17; 25pp; Japanese.
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                                                                                                                      793 GTCTCCTGTAGTAA 806
                                                                                                                                                                                                                                                                                       AAT79144 standard; DNA; 14
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Ouery Match
Best Local Similarity 85...
Best Local 12; Conservative
                                                                                                                                                                14 Greregreraka 1
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hes 12; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Enzymatic nucleic acids - which cleave RNA derived from an epidermal growth factor receptor, useful for inhibiting cell proliferation and for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes enzymatic nucleic acid molecules (NAMs)
hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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                                cancer; genetic drift; detection; mutation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mcswiggen JA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 6; Page 89; 109pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                          (RIBO-) RIBOZYME PHARM INC.
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Best Local Similarity 78.67
Matches 11, Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fell P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                        UNIV ASTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            treating cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                           14-JAN-1998;
                                                                                                                                                                                                                                                                                                                                      31-JAN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Akhtar S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           UYAS-)
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MAKA KARAKA KARA
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AAV48709-886 represent antisense oligonucleotides directed against the ExbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted in ExbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted in contain actuation in ExbB-2 protein expression, while coligonucleotides AAV4872-886 had little effect. The oligonucleotides and the invention. The specification describes oligonucleotides (as exemplify the invention. The specification describes oligonucleotides (contain 8-30 nucleotides able to form three H-bonds each to contain four consecutive nucleotides able to form two sequences of three consecutive cursoines; do not contain two sequences of three consecutive cursoines, and the ratio between residues able to form two H-bonds each (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The cultonic form bonds (3R) is given by 2R/3R = 0.33-0.72. The cultonic form profiles are used to modulate expression of genes, particularly the genes for p53, BrB-2, junB, junD, 7GF-beta 1 or beta 2 to control confidence of primary cell cultures (e.g. bone marrow stem, liver or coligonucleotides can also be used to analyse function of proteins (by altering their expression or activity) and therapeutically, e.g. in cases consecution of cancer or (targeting TGF) for stimulating the immune system
                                                                                                                        Preparation of antisense oligo:nucleotide(s) which lack long runs of consecutive guanosine or inosine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapeutically or to modulate growth of cells in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; harmerhead ribozyme; angiogenic factor; cytostatic; antidiabetic; ophthalmologic; antidiamatory; antiarthritic; antipsoriatic; ARNT; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma; myopic degeneration; psoriasis; verruca vulgaris; angiofibroma; tuberous solerosis; pot-wine stain; Sturge Weber syndrome; Rippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.
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(BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human TIE-2 target site SEQ ID NO:2420.
                                                                                                                                                                                                                                                        Example 4; Fig 6d; 286pp; English.
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                                        Brysch W;
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                                                                                 WPI; 1998-400910/35
                                           Schlingensiepen K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-MAR-1999;
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schultz451-1.rng

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comparises: (a) introducing into the system a random library of nucleic acid capable of modulating a process in a biological system. The method capable of modulating a process in a biological system. The method comparises: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (SBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules with endomuclease activity and catalytic activity, from the present invention, are used to modulate gene expression in plant and mammalian cells and to cleave target nucleic acid, particularly for treating systemic diseases caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic acid, matchions in diseased cells and to determine caref RNA. Specifically NACs with RNA-cleaving activity that modulate expression of the Raf gene, are used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or generally any condition associated with the level of craft. Introduction of sugar/phosphate modifications increases stability against nuclease and activity. AAV90922 to AAV939877 represent NACs that can be used in the method, specifically for modulating the expression of a Raf gene
The present invention describes enzymatic nucleic acid molecules with RNA cleaving activity, which specifically cleave RNA encoded by an aryl cleaving activity, which specifically cleave RNA encoded by an aryl cleaving activity, which specifically cleave RNA encoded by an aryl colleaving activity, which specifically cleave RNA encoded by an aryl colleaving activity and apalyse subunit gene, or a Tie-2 gene. AAA1675 to AAA1765 to AAA1768 to AAA1768 to AAA19675 to AAA19675 to AAA19675 to AAA19675 to AAA1968 to AAA19675 to AAA19675 to AAA19675 to AAA19675 to AAA1968 to AAA1967 to AAA1968 to AAA1968 represent their corresponding target sequences; AAA168 to AAA2168 represent their corresponding target sequences; AAA2168 to AAA2168 represent their corresponding target sequences; Corresponding target sequenc
                                                                                                                                                                                                               Novel ribozymes for modulating the synthesis, expression and/or stability of an mRNA encoding an angiogenic factors.
                                                                                                       Mcswiggen JA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            integrin subunit alpha-6, or integrin subunit beta-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence 14 BP; 0 A; 3 C; 5 G; 0 T; 6 U; 0 Other;
                                                                                                       Coeshott C,
                                                                                                                                                                                                                                                                                               Claim 56; Page 138; 305pp; English.
                                                                                                       Jarvis T,
98US-0079678P.
                                                   (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                           WPI; 1999-591315/50
27-MAR-1998;
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Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, referenceis, and also new ribozymes and modified nucleoside triphosphates used as antiviral agents and synthons.

Claim 179; Page 163; 259pp; English.

Bellon L; Burgin A;

Jarvis T. Matulic-Adamic J. Reynolds M. Kisich K. Parry T. Beigelman L. Mcswiggen JA. Karpeisky A. Thompson J. Workman CT. Beaudry A. Sweedler D:

WPI; 1999-009494/01.

97US-0049002P. 97US-0051718P. 97US-0056808P. 97US-0061321P. 97US-0061324P.

03-JUL-1997 22-AUG-1997 97US-0064866P 97US-0068212P

02-0CT-1997; 02-0CT-1997; 05-NOV-1997; 19-DEC-1997;

(RIBO-) RIBOZYME PHARM INC.

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Gaps
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0
     Score 10.8; DB 1; Length 14;
Pred. No. 7.4e+02;
5; Mismatches 2; Indels
Query Match
Best Local Similarity 50.0%;
                                                      889 GIGCIGITGCCCCT 902
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1 GUGCUGUUGGCCUU 14
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Human, c-raf, A-raf, B-raf, hammerhead ribozyme; hairpin ribozyme;
target; substrate; catalyst; modulation; expression; Raf gene; delivery;
screening; identification; synthesis; deprotection; purification; cancer;
inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;
restenosis; rheumatoid arthritis; ss.
                                                                                                           Human A-raf target sequence nucleotide position 156.
                          AAV92766 standard; RNA; 14 BP
                                                                               (first entry)
                                                                                 18-FEB-1999
                                                     AAV92766;
RESULT 1476
                                                                                                                                                                                                                        Ношо
          AAV92766
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98WO-US009249.

05-MAY-1998;

409850530-A2

12-NOV-1998.

Human, c-raf, A-raf, B-raf, hammerhead ribozyme, hairpin ribozyme, target, substrate; catalyst, modulation, expression, Raf gene; delivery; screening; identification; synthesis; deprotection; purification; cancer; inflammation; psoriasis; non-hepatic ascites; infection; genetic drift; restenosis; rheumatoid arthritis; ss. Human C-raf target sequence nucleotide position 205. AAV92005 standard; RNA; 14 BP. 1 gecesageedeaction 14 (first entry) sapiens 18-FEB-1999 AAV92005; RESULT 1477 Homo 8XXXXXXXXXXXXXXXXXXX 셤

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Gaps

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Query Match 0.5%; Score 10.8; DB 1; Length 14; Best Local Similarity 78.6%; Pred. No. 7.46+02; Matches 11; Conservative 1; Mismatches 2; Indels

1119 GCCCAGTTCCACCT 1132

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Sequence 14 BP; 2 A; 9 C; 2 G; 0 T; 1 U; 0 Other;

(PROF-) PROFILE DIAGNOSTIC SCI INC.

Hepburn AG, Wang C;

WPI; 1999-130384/11

92US-00968436.

93US-00173489

22-DEC-1993; 29-OCT-1992;

19-JAN-1999. US5861244-A

Haemophilus influenzae

Synthetic

oncogene; virus; ss.

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capable of modulating a process in a biological system. The method capable of modulating a process in a biological system. The method capable of modulating a process in a biological system. The method comprises: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (BBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules with endonucleas activity and catalytic activity, from the present invention, are used to modulate gene expression in plant and mammalian cells and to cleave target nucleic acid, particularly for treating systemic diseases caused by specific RNA, eg. cancer, inflammation, psoriasis, non-hepatic ascites and infection. They may also be used to detect genetic drift and mutchins in diseased cells and to determine craft RNA. Specifically NACs with RNA-cleaving activity that modulate expression of the Raf gene, are used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or generally any condition associated with the level of c-raf. Introduction of sugar/phosphate modulations increases stability against nuclease and activity. AAV90922 to AAV93877 represent NACs that can be used in the cativity. AAV90922 to Racking the expression of a Raf gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenceis, and also new ribozymes and modified nucleoside triphosphates used as antiviral agents and synthons.
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Burgin A;
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                                                                                                                                                                                                                                                                                                                                                                                      Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K,
Parry T, Beigelman L, Mcswiggen JA, Karpeisky A, I
Thompson J, Workman CT, Beaudry A, Sweedler D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 14 BP; 2 A; 6 C; 2 G; 0 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 151; Page 155; 259pp; English
                                                                                                                                            97US-0046059P.
97US-0051718P.
97US-00561718P.
97US-0061321P.
97US-0061324P.
97US-0061324P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1137 CTCCAGCTCCACCT 1150
                                                                                                       98WO-US009249
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1 CUCCAGCUGCAUCU 14
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Best Local Similarity 64...
Pest Local 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-009494/01.
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05-NOV-1997;
19-DEC-1997;
                    WO9850530-A2
                                                                                                       05-MAY-1998;
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                                                            12-NOV-1998.
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The present sequence represents a polymuclectide that is able to form a triple helix with a double stranded sequence. Cytosine bases in the present can be replaced with 5-methylcytosine for increased triplex tability. The present sequence is used in the assay of the invention, where it can be part of the anchor DNA or reporter DNA sequence. The assay comprises adding a sample containing double-stranded DNA test DNA, attached to an aqueous medium containing at least one complex of anchor DNA, attached to a solid support, and reporter DNA, where either a part of the anchor DNA or reporter DNA, where either a part of the anchor DNA or reporter DNA, where either a part of the new with part of the test sequence. Triplex formation results in displacement of the reporter DNA which is detected as an indication of the presence of the DNA test sequence. The method is used to detect DNA sequences, particularly for identification of bacteria (by detecting genes for ribosomal RNA) in clinical samples, but also detection of oncogenes and Hepatitis B virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bnzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage;
cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;
autoimmune disease; ss.
Assay of genetic sequences based on triplex formation from double stranded analyte - and hybrid of anchor and reporter sequences, with reporter released if triplex formation occurs, used e.g. to identify
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Substrate for hairpin ribozyme which cleaves HCV at nt. 960.
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0.5%; Score 10.8; DB 1; Length 14;
Best Local Similarity 85.7%; Pred. No. 7.4e+02;
Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 14 BP; 0 A; 7 C; 1 G; 6 T; 0 U; 0 Other;
                                                                                                                                                       Disclosure; Col 25-26; 168pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1015 GAAAAAGAGGGGA 1028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAZ64702 standard; RNA; 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14 gaagaagaggga 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hepatitis C virus
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Matches
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Triplex formation; DNA detection; triple helix; identification; bacteria;

Triple helix third strand of 23S rRNA gene nucleotides 471-484.

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Bellon L;

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with a target sequence and contain at least one phosphoro (di)thioate with a target sequence and contain at least one phosphoro (di)thioate link, having endomuclease activity. (A), and more generally any catalytic muclet acid (A) that modulates expression of the oestrogen receptor gene, are used to treat cancer (particularly of breast or endometrium). In vivo or by transforming cells ex vivo and implanting treated cells, or for other conditions associated with levels of oestrogen receptor.

Because of the high selectivity for targeted RNA, (A) can also be used correlate inhibition of gene expression with alterations in phenotype, particularly for identification of therapeutic targets, and as research used with DNA). The combination of modifications in (A) improves resistance to nucleases, binding affinity and/or activity. AAA23503 to AAA24747 represent oestrogen receptor hammerhead ribozyme sequences.

AAA24748 to AAA25992 represent their corresponding target sequences.

AAA24748 to AAA25902 represent their corresponding target sequences.
                                                                                                                                             New nucleic acids that interact, and optionally cleave, target sequences,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequences, and AAA26107 to AAA26218 represent their corresponding target sequences. AAA26219 to AAA26271 represent other ribozyme sequences and antisense oligonucleotides used in the exemplification of the present
                                                                                                                                                                                                                                                                     The present invention describes nucleic acids (A) that interact stably
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage; hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide; gene expression modification; cancer; phosphorothioate; endonuclease; anticancer; breast cancer; endometrium cancer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oestrogen receptor hairpin ribozyme target sequence SEQ ID NO:2656.
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Haeberli P;
Karpeisky A,
Haeberli P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 14 BP; 3 A; 6 C; 3 G; 2 T; 0 U; 0 Other;
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Zwick M, Jarvis T, Woolf T,
Mcswiggen JA,
is T, Woolf T,
                                                                                                                                                                                                                          Claim 79; Page 98; 148pp; English.
  Beigelman L, Mcswig
Zwick M, Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP.
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98US-00103636.
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                                                                                                                                                                             used to treat cancer.
                                                                                                     WPI; 2000-013248/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
ses 12; Conserv
Thompson JD, Beig
Reynolds M, Zwick
Matulic-Adamic J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Thompson JD,
Reynolds M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
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23-JUN-1998;
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                          The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hairpin ribozyme, which cleaves the Hepatitis C virus (KTCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme target sites using a computer folding algorithm and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their activities optimised by either varying the length of the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and thereferon to treat HCV infection, other infectious diseases, autoimmune diseases, and cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                          Novel ribozymes for the treatment of diseases and conditions related to hepatitis C infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage; harmerhead ribozyme; hairpin ribozyme; antiense oligonuclectide; gene expression modification; cancer; phosphorothicate; endonuclease; anticancer; breast cancer; endometrium cancer; ss.
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Pred. No. 7.4e+02;
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                                                                                                                                                                                                                               Pavco PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                  Roberts E,
                                                                                                                                                                                                                                                                                                                                                                                                          Claim 2; Page 94; 123pp; English.
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98US-00103636.
                                                     98US-0083217P.
                                                                                                     99US-00257608.
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Best Local Similarity 64.3%;
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1161 TGACTGTCCCAACT 1174
       99WO-US009027
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                                                                                                                                                                               (RIBO-) RIBOZYME PHARM INC.
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                                                                                                                                                                                                                                  Blatt L, Mcswiggen JA,
                                                                                                                                                                                                                                                                               WPI; 2000-062023/05.
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                                                                                                       25-FEB-1999;
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       26-APR-1999;
                                                       27-APR-1998;
18-SEP-1998;
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Bellon L;

WPI; 2001-607700/69.

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WPI; 2000-013248/01.
Matulic-Adamic J;
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                                                                                                                     Unidentified.
                                                                                                  05-FEB-2002
                                                                                                                              25-OCT-2001
                                                                                              ABA02602;
                                                           invention
                                                                   Query Match
                                                                                      RESULT 1482
                                                                       Matches
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The invention relates to the discovery, identification and characterisation of toxic agents lethal to pathogens and methods for targeting such toxic agents lethal to pathogen infected cells in corder to treat and/or eradicate the infection. In particular the invention relates to at least one nucleic acid molecule, which cassociated with the transformation or plasmid copy number control, which hybridises to a viral polyadenylation signal or a core, pre core or hybridises to a viral polyadenylation signal or a core, pre core or hybridises to a viral polyadenylation signal or a core, pre core or copymerase encoding sequence. Specifically, the invention relates to the collivery of one or more toxic gene products, antisense RNAs, ribozymes, conjuvery of one or more toxic gene products, antisense RNAs, ribozymes, conjuvery of one or more toxic gene products, antisense RNAs, ribozymes, cortivity and can be used in gene therapy. They are useful for the activity and can be used in gene therapy. They are useful for the produce a cytocoxic or cytostatic effect in papillomavirus or hepatitis B infected cells. The papilloma virus induced conditions and can infected cells. The papilloma virus induced conditions is selected from artyces a papilloma bandozs88-ABAO2610 comprise ribozyme flanking cervical dysplasia, cervical cercinoma, carcinoma in situ and contributed conditions and can be useful for the formation of a papilloma bandozs88-ABAO2610 comprise ribozyme flanking cervical cervic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human transcription controlling factor (E2F) detection oligonucleotide 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human, 88; transcription controlling factor detection oligonucleotide; E2F detection oligonucleotide; expressed activity; transcription activity of E2F.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                        Novel nucleic acid for the treatment of papilloma or hepatitis virus induced conditions comprises a catalytic region which produces a cytotoxic or cytostatic effect in the infected cell.
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85.7%; Pred. No. 7.4e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 14 BP; 4 A; 4 C; 3 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                  Example; Page 97; 143pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; Page 6; 8pp; Japanese.
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Best Local Similarity 85.7%
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the invention
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                                                                                                                                                                                                                                                                                   with a target sequence and contain at least one phosphoro (dilthicated link, having endonuclease activity. (A), and more generally any catalytic nucleic acid (A') that modulates excession of the oestrogen receptor cancer, are used to treat cancer (particularly of breast or endomerrium), in vivo or by transforming cells ex vivo and implanting treated cells, or for other conditions associated with levels of oestrogen receptor.

Correlate inhibition of gene expression with alterations in phenotype, correlate inhibition of gene expression with alterations in phenotype, cancel the high selectivity for targeted RNA, (A) can also be used to particularly for identification of therapeutic targets, and as research respects to mucleases are used with DNA). The combination of modifications in (A) improves resistance to nucleases, binding affinity and/or activity. AAAA2503 to AAAA2474 to AAAA2592 represent ceceptor hammerhead ribozyme sequences.

AAAA2593 to AAAA2610 represent oestrogen receptor hairpin ribozyme sequences. AAAA26219 to AAAA2621 represent other ribozyme sequences and anticesses oligonucleotides used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                             New nucleic acids that interact, and optionally cleave, target sequences, used to treat cancer.
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                                                                                                                                                                                                                                                             present invention describes nucleic acids (A) that interact stably
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Hoel B, Dolan J, Pan W;
                                                                                                                                                                                                        Claim 79; Page 100; 148pp; English.
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07-DEC-2000; 2000US-0251810P.
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(PENN-) PENN STATE RES FOUND.
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This invention relates to oligonucleotides used for cleaving, detecting and amplifying the mecA gene (associated with methicillin resistance in Staphylococcus aureus) or its derived RNA. The invention also comprises a detection method employing an RNA amplification process, using RNA derived from the mecA gene as template. Also disclosed is a detection method for a methicillin-resistant S. aureus (WRSA), comprising an RNA method for a methicillin-resistant S. aureus (WRSA), comprising an RNA camplification process in the presence of a complementary oligonucleotide probe labelled with an intercalated fluorescent dye, where complementary binding of the probe to the RNA transcription product results in a change of the probe to the RNA transcription product results in a change of the fluorescent property relative to that of a situation where a complex formation is absent, and then measuring the fluorescence complexed to the relative to the Complexity of the reaction solution. The oligonucleotides may be used as primers or probes, for detecting methicillin-resistant S. aureus in colinical samples. They may also be used therapeutically to inhibit RNA reverse transcription or translation. These oligonucleotides permit rapid and very sensitive detection/identification of the mecA gene, at a call very sensitive detection/identification of the mecA gene, at a call translatively low temperature without the need for heat denaturation of target RNA. The present sequence represents a methicillin resistant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New oligonucleotide specific for the mecA methicillin-resistance gene, useful for cleavage, detection and amplification of the gene or related
invention are useful for determining the expressed amount of E2F or the transcription activity of E2F. The present sequence represents an E2F detection oligonucleotide of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Methicillin resistant Staphylococcus Aureus; MRSA; primer; ss; mecA;
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                                                                                          Sequence 14 BP; 1 A; 8 C; 3 G; 2 T; 0 U; 0 Other;
                                                                                                                                  Query Match
0.5%; Score 10.8; DB 1;
Best Local Similarity 85.7%; Pred. No. 7.4e+02;
Matches 12; Conservative 0; Mismatches 2;
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09-JUN-2000; 2000JP-00179394.
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and amplifying the meck gene (associated with methicillin resistance in stably) cooccus aureus) or its derived MNA. The invention also comprises a detection method employing an RNA amplification process, using RNA detection method for a methicillin-resistance in derived from the meck gene as template. Also disclosed is a detection method for a methicillin-resistant S. aureus (MRSA), comprising an RNA methicillin-resistant S. aureus (MRSA), comprising an RNA method for a methicillin-resistant S. aureus (MRSA), comprising an RNA method for a methicillin-resistant S. aureus (MRSA), comprising an RNA completed with an intercalated fluorescent dye, where complex formation is absent, and then measuring the fluorescence in the fluorescent property relative to that of a situation where a complex formation is absent, and then measuring the fluorescence intensity of the reaction solution. The oligonucleotides may be used as primers or probes, for detecting methicillin-resistant S. aureus in creverse transcription or translation. These oligonucleotides permit rapid and very sensitive detection/identification of the measuration of relatively low temperature without the need for heat denaturation of target RNA. The present sequence represents a methicillin resistant cranger RNA. The present sequence represents a methicillin resistant
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85.7%; Pred. No. 7.4e+02;
tive 0; Mismatches 2; Indels
Score 10.8; DB 1; Length 1 Pred. No. 7.4e+02; 0; Mismatches 2; Indels
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09-JUN-2000; 2000JP-00179394.
      Query Match 0.5%;
Best Local Similarity 85.7%;
Matches 12; Conservative
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Best Local Similarity 85.7%
Matches 12; Conservative
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831 GAAGTIGIGCCIAC 844

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ABZ34640 standard; DNA; 14

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Human immunodeficiency virus; HIV; reverse transcriptase; RT; enzyme;
detection; mutation; anti-HIV drug resistance; polymorphism; resistance;
                                                                             HIV-1 reverse transcriptase mutation detection probe SEQ ID NO:462.
                                                                                                                                                                                                                                                                                                  Claim 2; Page 29; 117pp; English.
                                                                                                                       Human immunodeficiency virus 1.
                                  ВЪ.
                                                                                                                                                                                       11-JAN-2001; 2001EP-00870005.
20-APR-2001; 2001EP-00870085.
24-APR-2001; 2001US-0286102P.
                                                                                                                                                                         09-JAN-2002; 2002WO-EP000153
                                  DNA; 14
                                                              (first entry)
                                                                                                                                                                                                                    (INNO-) INNOGENETICS NV.
GAAGGTGTGCTTAC
                                                                                                                                                                                                                                  ü
                                                                                                                                                                                                                                                WPI; 2002-590680/63.
                                                                                                                                                                                                                                  De Smet K, Stuyver
                                  ABZ34220 standard;
                                                                                                                                             WO200255741-A2.
                                                              31-JAN-2003
                                                                                                                                                           18-JUL-2002
                                                                                                                                Synthetic.
                                                                                                         probe; ss.
                                                ABZ34220;
                     RESULT 1486
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Detecting mutations associated with anti-HIV drug resistance comprises detecting at least one of the mutations in the HIV reverse transcriptase gene by using probes optimized to function together in a reverse-hybridization assay.

Claim 2; Page 29; 117pp; English.

The present invention describes a method for detecting mutations associated with anti-HIV drug resistance in a patient by detecting at least one of the mutations K103N/R, V106A/IL, V181C/I, M184V/I, V186L, C190A/S/R, T215Y/F/D/S/A and/or O151M/L in the reverse transcriptase (RT) of HIV strains in a biological sample using a specific set of probes optimised to function together in a reverse-hybridisation assay. The method and the nucleic acid sequences used in the method are useful for determining viral mutations and/or polymorphisms in the HIV RT gene associated with resistance. The probes are useful for the genetic detection, preferably in vitro detection of the mutations K103N/R, V106A/J/L, V181C/I, O151M/L, M184V/I, Y181C, G190A/S/R and/or C715Y/F/D/S/A in the RT of HIV strains in a biological sample, where the mutation is associated with anti-HIV drug resistance. The method provides a rapid, reliable and precise assay or determination and monitoring of antiviral drug resistance or mutation as associated with anti-HIV drug resistance with drug resistance of sequences and probes which are used in the exemplification of the present

Sequence 14 BP; 3 A; 4 C; 5 G; 2 T; 0 U; 0 Other;

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Gaps
                                  .
0
0.5%; Score 10.8; DB 1; Length 14;
85.7%; Pred. No. 7.4e+02;
tive 0; Mismatches 2; Indels
                                12; Conservative
                   Similarity
    Query Match
Best Local (
                                  Matches
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1212 GGGGCTGACCCCA 1225 GGGGCTTACCACA 14

g ò

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Detecting mutations associated with anti-HIV drug resistance comprises detecting at least one of the mutations in the HIV reverse transcriptase gene by using probes optimized to function together in a reverse-hybridization assay.
                                                             Human immunodeficiency virus; HIV; reverse transcriptase; RT; enzyme; detection; mutation; anti-HIV drug resistance; polymorphism; resistance;
                                           HIV-1 reverse transcriptase mutation detection probe SEQ ID NO:882.
                                                                                                    Human immunodeficiency virus 1.
                                                                                                                                                                                    11-JAN-2001; 2001EP-00870005.
20-APR-2001; 2001EP-00870085.
24-APR-2001; 2001US-0286102P.
                                                                                                                                                                  09-JAN-2002; 2002WO-EP000153
                           (first entry)
                                                                                                                                                                                                                        (INNO-) INNOGENETICS NV
                                                                                                                                                                                                                                           Smet K, Stuyver L;
                                                                                                                                                                                                                                                             WPI; 2002-590680/63.
                                                                                                                              WQ200255741-A2.
                           31-JAN-2003
                                                                                                                                                 18-JUL-2002.
                                                                                    probe; ss.
                                                                                                             Synthetic.
         ABZ34640;
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The present invention describes a method for detecting mutations associated with anti-HIV drug resistance in a patient by detecting at associated with anti-HIV drug resistance in a patient by detecting at cleast one of the mutations K100N/R, V106A/IL, V181C/I, M184V/I, Y18BL, C G190A/S/R, T15Y/F/D/S/A and/or C15IM/L in the reverse transcriptase (RT) of HIV strains in a biological sample using a specific set of probes (CC of HIV strains in a biological sample using a specific set of probes (CC determining viral mutations and/or polymorphisms in the HIV RT gene cascolated with resistance. The probes are useful for the genetic detection, preferably in vitro detection of the mutations K103N/R, CC 7215Y/F/D/S/A in the RT of HIV strains in a biological sample, where the mutation is associated with anti-HIV drug resistance. The method provides a rapid, reliable and precise assay or determination and monitoring of a rapid, reliable and precise assay or determination and monitoring of a rapid, reliable and session mutations associated with drug resistance of viruses containing RT genes. ABZ34542 represent HIV RT sequences and probes which are used in the exemplification of the present

Gaps . 0 0.5%; Score 10.8; DB 1; Length 14; 85.7%; Pred. No. 7.4e+02; ive 0; Mismatches 2; Indels Sequence 14 BP; 5 A; 5 C; 1 G; 3 T; 0 U; 0 Other; Local Similarity 85,7 tes 12; Conservative Query Match

793 GTCTCCTGTAGTAA 806 CTGGTGTAGTAA 1 14 GT ò В

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RESULT 1488 ABX01539 ID ABX01539 standard; RNA; 14 BP.

/mod_base= OTHER /mod= "This sequence is a peptide nucleic acid i.e. it contains a polyamide backbone instead of a phosphodiester backbone"

Location/Qualifiers

Candida glabrata.

Synthetic

probe; ss.

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1. .14 /*tag=

Key modified base

Oliveira KM, Rigby S;

Hyldig-Nielsen JJ, Stender H,

WPI; 2003-120805/11

18-MAY-2001; 2001US-0292147P. 17-MAY-2002; 2002WO-US015634.

WO200295052-A2.

28-NOV-2002.

(BOST-) BOSTON PROBES INC

Peptide nucleic acid, PNA, personal care product, pharmaceutical, food clinical sample, beverage, dairy product, environmental sample, yeast,

Candida glabrata specific PNA probe #3.

(first entry)

28-MAY-2003

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The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The enzymatic nucleic acid or inbozyme is in a hammerhead (HH). The card or indoor in a partial in a hammerhead (HH). The the substrate sequences defined in the specification. The HCV is consisted to modulating the expression and/or replication of HCV. They can be used to treat circhosis, liver failure and/or replication of HCV. They can be used to treat circhosis, liver failure and/or hepatocellular carcinoma. The HCV ribozymes are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon. The present sequence represents a substrate for a HCV hairpin (HP) ribozyme. Note: Some of the sequence data for this patent was printed specification. The complete sequence data for this patent was constant and electronic format directly from the USPTO web site at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New ribozymes targeting RNA derived from hepatitis C virus inhibit viral replication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.
                                                                                                                            Enzymatic nucleic acid, RNA cleavage, Hepatitis C virus infection, HCV ribozyme; HCV expression, HCV replication, cirrhosis, virucide, liver failure, hepatocellular carcinoma, HCV infection, drug therapy, type I interferon, interferon alpha, interferon beta; cytostatic; interferon gamma; consensus interferon; hepatotropic; antiinflammatory, substrate; hairpin ribozyme; HP ribozyme; se.
                                                                                          Hepatitis C virus substrate #24 for HCV hairpin ribozyme #24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Macejack
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3latt L, Mcswiggen JA, Roberts B, Pavco PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   segdata.uspto.gov/psipsDIDEntry.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 2; Page 59; 80pp; English
                                                                                                                                                                                                                                                                                                                                                                                      99US-00274553.
                                                                                                                                                                                                                                                                                                                                                                                                                         99US-00274553.
                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                              BLATT L.
MCSWIGGEN J A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         (BLAT/) BLATT L.
(MCSW/) MCSWIGGEN J I
(ROBE/) ROBERTS B.
(PAVC/) PAVCO P A.
(MACE/) MACEJACK D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-617759/66
                                                                                                                                                                                                                                                                 Hepatitis C virus,
                                                                                                                                                                                                                                                                                                        JS2002082225-A1.
                                                                                                                                                                                                                                                                                                                                                                                      23-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                         23-MAR-1999;
                                                       23-DEC-2002
                                                                                                                                                                                                                                                                                                                                               27-JUN-2002
                  ABX01539;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to peptide nucleic acid (PNA) probe comprising a probing nucleobase sequence. The PNA probes are useful for detecting, identifying and/or quantifying Candida yeast in clinical samples, food, beverages, water, dairy products or environmental samples, personal care products, pharmaceutical products, for analysing or detecting the presence of a nucleic acid within an organism, or for the analysis of organisms or a nucleic acid extracted from or derived from an organism of interest. The present sequence is a probing nucleobase sequence of PNA probe specific for Candida glabrata. This sequence is used for detection of Candida yeast
                                                                                                                                                                                                                                                                                                                                                                                                                                                         New peptide nucleic acid probes comprising a probing nucleobase sequence, useful for detecting, identifying and/or quantifying one or more species of candida yeast in clinical samples, food, beverages, or environmental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 0.5%; Score 10.8; DB 1; Length 14; Best Local Similarity 85.7%; Pred. No. 7.4e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Seguence 14 BP; 4 A; 7 C; 3 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mutated LRP5 exon fragment #23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 2; Col 33; 25pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1288 GCCCACAAGCCACA 1301
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ADB98861 standard; DNA; 14
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Gaps ö

2; Indels

DB 1; Length 14;

Query Match 0.5%; Score 10.8; DB 1; Best Local Similarity 64.3%; Pred. No. 7.4e+02; Matches 9; Conservative 3; Mismatches 2;

1161 TGACTGTCCCAACT 1174 :|||:| UGACUGCUCCAACU 14

임

AAD53201 standard; DNA; 14 BP.

RESULT 1489 AAD53201

AAD53201

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

Edmondson SR;

WPI; 2001-041421/05

99US-0140345P

21-JUN-1999;

CHILDRENS Werther GA,

(MURD-) MURDOCH

Wraight CJ,

21-JUN-2000; 2000WO-AU000693

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to High Bone Mass (HBM), LRP5 (Zmax1) and LRP5 must s, which results in a HBM-like phenotype when expressed in a cell. The HBM-like phenotype results in bone mass modulation and/or lipid level modulation. The invention is useful for diagnosing a HBM-like phenotype in a subject and for preparing a composition for modulating bone mass and/or lipid levels in a subject suffering from e.g. seteoporosis. The present sequence was used to illustrate the invention.
                                                                                                                                                                                                                                                                                                                                                                                 New nucleic acid comprising a mutation in LRP5 or LRP6, useful for diagnosing a HBM-like phenotype in a subject and for preparing a composition for modulating bone mass and/or lipid levels in a subject
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                    Liu W;
 Bone Mass; HBM; LRP5; Zmax1; LRP6;
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85.7%; Pred. No. 7.4e+02;
cive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 14 BP; 1 A; 2 C; 7 G; 4 T; 0 U; 0 Other;
Osteopathic; Gene therapy; High Bone Ma
bone mass modulation; osteoporosis; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure, Page 51; 629pp; English.
                                                                                                                                                                                                                                                                                                                    Graham JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                       suffering from e.g. osteoporosis.
                                                                                                                                                                                                                                                               (GENO-) GENOME THERAPEUTICS CORP (AMHP ) WYETH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP
                                                                                                                                                                                11-MAY-2001, 2001US-0290071F.
17-MAY-2001, 2001US-029131IP.
01-FEB-2002; 2002US-0353058F.
04-MAR-2002; 2002US-0361293F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IGFBP3 oligonucleotide #1661.
                                                                                                                                              13-MAY-2002; 2002WO-US014877
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAF48241 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
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Best Local Similarity 85.7%
Watches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14 AGGACTCACCCCA 1
                                                                                                                                                                                                                                                                                                                    Allen K, Anisowicz A,
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                                                                                WO200292000-A2.
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                                                                                                                  21-NOV-2002
                                                 Synthetic
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGR]-1 receptor, IGF binding protein [IGFB]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, plaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperrecovascular condition such as a neovascular condition of the retina, characteristic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 2 A; 7 C; 2 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                            Example 7; Page 55; 201pp; English.
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                                                                                                                                                                                                                                                        inflammation
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                                                                                                                  Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Selection of low frequency antigen-specific B lymphocytes - using antigen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 15 BP; 1 A; 7 C; 3 G; 4 T; 0 U; 0 Other;
                                                  Edmondson SR;
                (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                          Example 7; Page 55; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP
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(first entry)
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                                                  Wraight CJ, Werther GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTGAAGAGGAGGG
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                                                                                  WPI; 2001-041421/05
                                                                                                                                                                          inflammation.
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26-JUN-1992;
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14-MAR-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ48499;
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AAQ48499/c
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The sequences given in AAQ48499-514 are primers which amplify human heavy corresponding segments almost 100% of the time in single cells taken from the human lymphoblastoid 100% of the time in single cells taken from the human lymphoblastoid 100% of the time in single cells taken from the human lymphoblastoid 100% of the times and cover the known sequences of the 155 VH segments which have been sequenced. The known sequences from single B cells is amplified by semi-nested PCR. The procedure calls for two rounds of PCR amplification. The same sets of degenerate 5' VH and VK primers are used for both rounds of PCR, whereas the 3' primers used in the second round of PCR are derived from the first round. Therefore in the second round of PCR the 5' end is not nested but the 3' end is. The VH and VL gene segments amplified in the first round, Therefore in the second round of PCR the 5' end is not nested but the 3' end is. The VH and VL gene segments amplified by this method may be cloned and sequenced by incorporating them into an file id.)
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                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; HARNA; picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV; papilloma virus; HBV; Epstein-Barr virus; EBV; TCLV; T-cell leukaemia virus; hepatitis C virus; HCV; cytomegalovirus; influenza virus; HSV; herpes simplex virus; vector; immune response; antibody; ribozyme; viral RNA; treatment; ss.
probes and isotype probes with fluorescence activated cell sorting
                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                         Sequence 15 BP; 2 A; 2 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cytomegalovirus target sequence 11.
                                  Disclosure, Page 30, 42pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9205-00882712
9205-00882713
9205-00882714
9205-00882823
9205-00882886
9205-00882886
9205-00882886
9205-00882886
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92US-00882922.
92US-00883823.
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92US-008B4073.
92US-008B4074.
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(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                         12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
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14-MAY-1992;
14-MAY-1992;
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14-MAY-1992;
14-MAY-1992;
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26-MAY-1994
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14-MAY-1992
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The sequences (AAQ52824-Q52890) are pref. Cytomegalovirus target sequences for enzymatic RNA molecules. The RNA molecules are complementary to a substrate binding region in the specified gene target. They also have enzymatic activity, in that they specifically cleave RNA in the target. The ERNS interfere with viral replication and therefore have anti-viral properties. They can be used to attenuate viruses to be used in vaccines. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PR field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \mathtt{Enzymatic} \mathtt{RNA} molecules - used to inhibit viral replication, infection and gene expression.
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Mamone JA;
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85.7%; Pred. No. 9e+02;
iive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15 BP; 0 A; 7 C; 0 G; 0 T; 8 U; 0 Other;
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                                                                                                  9205-0088284
9205-00882886
9205-00882888
9205-00882921
9205-00882921
9205-00883849
9205-00884074
9205-00884437
9205-00884436
9205-00884436
9205-00884436
9205-00884353
9205-0088436
9205-0088436
9205-0088436
9205-00936886
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    92US-00882689
                                          92US-00882713
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Best Local Similarity
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02-MAY-1995
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4-MAY-1992;
4-MAY-1992;
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AAQ73360/C
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AC AAQ73360
AC AAQ73360
DT 25-MAR-2
DT 02-MAY-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The sequences (AAQ52824-Q52890) are pref. Cytomegalovirus target sequences for enzymatic RNA molecules. The RNA molecules are complementary to a substrate binding region in the specified gene target. They also have enzymatic activity, in that they specifically cleave RNA in the target. The ERMs interfere with viral replication and therefore have anti-viral properties. They can be used to attenuate viruses to be used in vaccines. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                            Enzymatic RNA molecules - used to inhibit viral replication, infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; HnRNA; picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV; papliloma virus; HPV; Epstein-Barr virus; EBV; TGIV; T-cell leukaemia virus; hepatitis C virus; HCV; cytomegalovirus; influenza virus; HSV; hepres simplex virus; vector; immune response; antibody; ribozyme; viral RNA; treatment; ss.
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                                                                                                                                                                                                                                                                                                                            Dudycz LW, Mcswiggen JA, Macejak DG, Holecek JJ;
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92US-0088433.
92US-00884411.
92US-00884431.
92US-00884521.
92US-008253738.
92US-00928358.
92US-00938329.
92US-00987129.
92US-00987129.
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  and gene expression
                     14-MAY-1992;
14-MAY-1992;
14-MAY-1992;
14-MAY-1992;
31-JUL-1992;
26-AUG-1992;
15-OCT-1992;
15-OCT-1992;
07-DEC-1992;
07-DEC-1992;
07-DEC-1992;
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26-MAY-1994
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Mamone JA;
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Matches
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Gaps

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Selecting antigen-specific B lymphocytes - by fluorescence activated cell
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                                                                                                                                                                                                                                            New modified oligo-nucleotide contg guanine quartet - inhibits activity of viruses, e.g. HIV, and phospholipase A2 and modulates telomere length of chromosomes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Primer, amplification; Vh; heavy chain, antibody; B cells; lymphocyte; immunoglobulin; PCR; polymerase chain reaction; ss.
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                                                                                                                                                 Brown-Driver VL;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.5%; Scoré 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                 P, Bennett CF, Chiang M, Wyatt JR, Imbach JL;
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                                     93WO-US009297.
                                                                          92US-00954185.
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(first entry)
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Best Local Similarity 85.7
Matches 12; Conservative
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I, Vickers TA,
                                                                                                              (ISIS-) ISIS PHARM INC
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                                     29-SEP-1993;
                                                                          29-SEP-1992;
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14-FEB-1995
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14-APR-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The sequences given in AAQ73325-81 represent oligonucleotides which hybridise specifically with DNA or RNA from a herpes virus gene corresponding to one of the open reading frames UI5, -8, -9, -50, -27, -30, -42, -52 or 18175 of herpes simplex virus type I (HSV-1). These oligos pref. hybridise with a translation initiation site, a coding region or a 5' untranslated region. These oligos may be used in compositions for the treatment and diagnosis of herpes viral infection, by contacting the virus or the animal, or its cells, issues or body fluids with the oligo. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                   New oligonucleotide(s) hybridising with DNA or RNA of herpesvirus gene are used in the treatment and diagnosis of herpes simplex virus, cytomegalovirus, Epstein Barr virus and varicella zoster infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Inhibition, replication, herpes simplex virus, HSV, HIV, human cytcomegalovirus; infiluenza virus, infilmmation repeagalovirus; infiluenza virus, activity, hyperproliferation; malignancy; cardiovascular disease; snake bite; malignancy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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/note= "Phosphorothionate intersugar linkages"
                                                                                                                                                                                                                                                                                            Hanecak R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cch 0.5%; Score 10.8; DB 1; Length 15; 11 Similarity 85.7%; Pred. No. 9e+02; 12; Conservative 0; Mismatches 2; Indels
Hybridise; herpes simplex virus; HSV; open reading frame; translation initiation site; coding region; 5' UTR; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HSV replication inhibiting oligomer, ISIS no 4885.
                                                                                                                                                                                                                                                                                          rooke ST, Mirabelli CK, Ecker DJ,
Brown-Driver VL, Wyatt JR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 BP; 2 A; 2 C; 9 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        telomere length; retard; aging; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 12; Page 22; 72pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAQ61848 standard; DNA; 15 BP.
                                                                                                                                                                          94WO-US002471.
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                                                                                                                                                                                                                                                         ISIS-) ISIS PHARM INC
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                                                                                                                                                                                                                                                                                            Crooke ST,
                                                                                                                                                                                                                                                                                                                                                  WPI; 1994-302552/37.
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                                                                                                                                                                                                                                                                                                               Anderson KP,
                                                                                               WO9419945-A1
                                                                                                                                                                            07-MAR-1994;
                                                                                                                                                                                                                 12-MAR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-2003
04-NOV-1994
                                                                                                                                       15-SEP-1994
                                                                                                                                                                                                                                                                                            Draper KG,
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                                                          Synthetic.
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Best Local S
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ò g schultz451-1.rng

Tue Mar

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Sequence 15 BP; 8 A; 3 C; 3 G; 1 T; 0 U; 0 Other;
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                                                Local Similarity
nes 12; Conserv
                                                                                                                                                                                                                                                                                                                                                                         WO9415945-A1
                                                                                                                                                                                                                                                                                                                                                                                                                        28-DEC-1993;
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                                                                                                                                                                                                                        25-MAR-2003
15-FEB-1995
                                                                                                                                                                                                                                                                                                                                                                                                  21-JUL-1994.
                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                  AAQ70346;
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                                       Query Match
                                                                                                                                                    RESULT 1500
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                                                            This oligonucleotide is suitable to be used as a 5' end primer for human verbal coding segments. The preferred set of 5' end primers for Vh consists of 5 degenerate groups of oligonucleotides and one nondegenerate oligonucleotide (AAQ68539-44), totaling 53 sequences. This set of primers corresponds to the first 5 amino acids of the mature immunoglobulins and sequenced. The variations in this sequence which yield these other sequenced. The variations in this sequence which yield these other oligonucleotides are that the first guanidine uncleotide can be a cytosine, the sixth guanidine can be a thymidine and the thirteenth guanidine can be a thymidine can be correct PF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    fibrosis gene. The primers are designed to be complementary to eight of the most common mutations within the CP gene. Detection is carried out by the incorporation of a labelled dideoxynucleotide. Individuals carrying the mutation incorporate a different base as opposed to normal individuals. This primer detects the delta-507 mutation site by the incorporation as gdayp as opposed to ddgTP. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The primers (AAQ55452-62) are use to detect mutations within the cystic
                                                                                                                                                                                                                                                                Gaps
sorting using at least 2 different antigen probes with fluoro:chrome
labels.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Determining identity of nucleotide base - by using primer extension process, useful for typing of samples and genotype identification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cystic fibrosis, CF; mutation; detection; primer extension; typing; genotype identification; biotinylated; ss.
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0
                                                                                                                                                                                                                                    0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                              Sequence 15 BP; 2 A; 2 C; 8 G; 3 T; 0.U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Detection primer for cystic fibrosis mutation.
                                       Disclosure; Col 15; 11pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example A, Page 24, 42pp, English.
                                                                                                                                                                                                                                                                                                                                                                           BP.
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92US-00919872.
                                                                                                                                                                                                                                                                                    1137 CTCCAGCTCCACCT 1150
                                                                                                                                                                                                                                                                                                                                                                         AAQ55453 standard; DNA; 15
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(first entry)
                                                                                                                                                                                                                              Query Match
Best Local Similarity 85.7%
                                                                                                                                                                                                                                                                                                             CACCAGCTGCACCT 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1994-034981/04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9401447-A1
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27-JUL-1992;
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19-JUL-1994
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AAQ55453/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The sequence is an antisense molecule directed against position +4 to +18, relative to the start codon of the gene for mouse fibroblast growth factor 1. The polynucleotide can be used for inhibiting vascular smooth muscle cell proliferation and for treating a disease e.g. vascular stenosis, post angioplasty restenosis, atherectomy, atherosclerosis, artial venous shunt failure, cardiac hypertrophy, vascular surgery and organ transplant. See also AAQ70333-60. (Updated on 25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New anti-sense polynucleotide(s) to fibroblast growth factor receptor used for inhibiting vascular smooth muscle cell proliferation, partic. for treating restenosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fibroblast growth factor; hybridisation; laser procedures; vascular smooth muscle cell; proliferation; SMC; vascular stenosis; post angioplasty restenosis; atherosclerosis; cardiac hypertrophy; organ transplant; ss.
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0.5%; Score 10.8; DB 1; Length 15;
llarity 85.7%; Pred. No. 9e+02;
Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 15 BP; 3 A; 8 C; 2 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Antisense oligonucleotide for mouse FGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (TEXA-) TEXAS BIOTECHNOLOGY CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 3; Page 9; 53pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Denner LA, Rege AA, Dixon RA;
                                                                                                                                                                                                                                                                                                                                                      AAQ70346 standard; DNA; 15 BP.
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AAQ81719/c
ID AAQ81719 standard; DNA; 15
                                                                                                                                 911 TCTTTGGTCTTTGC 924
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(first entry)
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(first entry)

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RSV N hammerhead ribozyme target sequence (nt. position 449).
25-MAR-2003
15-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oligonucleotides (AAQ81716-20) are antisense oligonucleotides complementary to the mRNA of the fibrogenic cytckine tumour necrosis factor-alpha (TNP-alpha) which inhibit expression of this cytokine. The oligonucleotides may contain phosphorothicate linkages to render the nuclease resistant. They are used to inhibit scar formation at a wound site by preventing the production of fibrogenic cytokines such as transforming growth factor-beta (TGP-beta), TNP-alpha, platelet derived growth factor (PDGF), fibroblast or epithelial growth factors (FGF or EGF) or interletkins 1 or 6 (IL-1, IL-6) which are released at high level at the wound periphery. The oligonuclectides reduce collagen content of the wound and increase tensile strength. Treated wounds are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New anti-sense oligo-nucleotide(s) to mRNA of fibrogenic cytokine - esp. transforming growth factor-beta and platelet derived growth factor, used topically to inhibit scar formation at wound sites.
                                                                                                                               Antisense; fibrogenic; cytokine; transforming growth factor-beta; TGF-beta; phosphorothioate; scar; wound; tumour necrosis factor-alpha; TNF-alpha; platelet derived growth factor; PDGF; fibroblast; epithelial; growth factor; RGF; interleukin; IL-1; IL-6; collagen; ss.

    15
    *tag= a
    nucleotide linkages may be phosphorothioate"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 2; Indels iive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Seguence 15 BP; 1 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                   Antisense oligonucleotide #14 to TNF-alpha mRNA.
                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6; Page 24; 28pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                          93KR-00010883.
                                                                                                                                                                                                                                                                                                                                                                                                            94WO-KR000066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ILYA-) IL YANG PHARM CO LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Query Match
Best Local Similarity 85.'",
Best Local 12; Conservative
                                                                    (first entry)
                                                    (revised)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1995-051691/07
                                                                                                                                                                                                                                                                      misc_difference
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06-OCT-1993;
                                                                                                                                                                                                                                                                                                                                                                                                            11-JUN-1994;
                                                  25-MAR-2003
06-SEP-1995
                                                                                                                                                                                                                                                                                                                                           WO9500103-A2
                                                                                                                                                                                                                                                                                                                                                                           05-JAN-1995
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                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chung HT;
                   AAQ81719;
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Chowrita B, Direnzo A, Draper KG, Dudycz LW;
isky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
P, Beigleman L, Sullivan SW, Sweedler D, Thompson JD;
N, Wincott FE, Woolf T;
                                                            Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; Ry, bcr-abl; oncogene; translocation; chromosome; inflammation; autoimmune disease; Philadelphia chromosome; inflammation; autoimmune disease; transplant rejection; rheumatoid arthritis; psoriasis; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial ischaemia; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves mRNA coding for a protein of respiratory syncytial virus (RSV) at the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 2; Page 274; 407pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Karpeisky A, Kisich K
Pavco P, Beigleman L,
Usman N, Wincott FE,
                                                                                                                                                                                                                                                                                                                                               94US-00201109.
94US-00228934.
94US-00224483.
94US-00228041.
94US-0021932.
94US-00291932.
94US-00291633.
94US-00291639.
94US-00291639.
94US-00314397.
94US-00314397.
94US-00314397.
94US-00314397.
94US-00314397.
94US-00314397.
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                                                                                                                                                                                                                                    Respiratory syncytial virus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1995-351090/45.
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                                                                                                                                                                                                                                                                                             31-AUG-1995
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Modak A,
Tracz D,
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Gaps

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754 ACCIGCCAIGCAGG 767

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14 AGCTGCCAGGCAGG 1

AAT57285 standard; RNA; 15

1502

RESULT 15 AAT57285

(revised)

27-AUG-2003

AAT57285;

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The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves ICAM-1 mRNA at the tundelectide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes cleave the ICAM-1 target sequences and thereby inhibit ICAM-1 expression, making them useful for reducing transplant asfjection and alleviating symptoms in patients with rheumatoid arthritis, asthma and other inflammatory disorders. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; by bcr-abl; oncogene; translocation; chronic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atherosclerosis; myoardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
                                          D DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
Usman N, Winoct FB, Woolf T;
                                                                                                                                                       Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mouse relA hammerhead ribozyme target sequence (nt. position 93).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match

0.5%; Score 10.8; DB 1; Length 15;

Best Local Similarity 64.3%; Pred. No. 9e+02;

Matches 9; Conservative 3; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 4 A; 6 C; 2 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                        Claim 2; Page 173; 407pp; English.
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94US-00222795.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT54804 standard; RNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAGCUACACCUA 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (revised)
(first entry)
               (RIBO-) RIBOZYME PHARM INC.
                                                                                                                           WPI; 1995-351090/45.
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29-MAR-1994;
04-APR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus.
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07-APR-1997
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                                                Stinchcomb
                                                               Grimm S,
Modak A,
Tracz D,
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synthesised with modifications that improve their nuclease resistance. The ribozymes ofleave the target sequences and can be used for treatment and diagnosis of RSV infection. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                       Human ICAM hammerhead ribozyme target sequence (nt. position 1750)
                                                                                                                                              .
                                                                                                          0.5%; Score 10.8; DB 1; Length 15; 78.6%; Pred. No. 9e+02; ative 1; Mismatches 2; Indels
                                                                              Sequence 15 BP; 4 A; 3 C; 6 G; 0 T; 2 U; 0 Other;
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9405-00227958.
9405-00245736.
9405-00291230.
9405-00291433.
9405-00291620.
9405-0029520.
9405-00300000.
9405-00300000.
9405-0031446.
9405-0031446.
9405-003148771.
9405-003164771.
9405-003164771.
9405-003164771.
9405-003164771.
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94US-00218934.
94US-00222795.
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18-MAR-1997 (first entry)
                                                                                                        U.5%
Query Match
Best Local Similarity 78.6%
Matches 11; Conservative
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15-APR-11994
18-MAY-11994
18-MAY-11994
16-AUG-11994
115-AUG-11994
117-AUG-11994
117-AUG-11994
117-AUG-11994
118-AUG-11994
118-AUG-11994
118-AUG-11994
118-AUG-11994
118-AUG-11994
118-AUG-11994
118-AUG-11994
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23-SEP-1994;
28-SEP-1994;
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23-DEC-1994;
30-JAN-1995;
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07-OCT-1994
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The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves relA mRNA at the nuclectide base position indicated in the DE line. The relA gane product is a subunit of the transcriptional regulator NF-kappaB and is implicated specifically in the induction of inflammatory responses. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes are designed to cleave the target cusful for treating rheumatoid arthritis, restenosis and asthma as well as for increasing tolerance to transplanted tissues. The potential immunosuppressive properties of a ribozyme that cleaves relA mRNA means that uses are limited to local delivery, acute indications or ex vivo
                                                                                                                                                                                                                                                                                                                                                                                                  b DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
Ugman N, Winoct FE, Woolf T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ribozymes having modified bases and methods for producing them - for in inhibiting disease related genes.
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94US-00224483.
94US-00227958.
94US-00245746.
94US-00271280.
94US-00291932.
94US-00291633.
94US-00292620.
94US-00293620.
94US-003939.
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94US-00311749.
94US-00314397.
94US-00316771.
94US-00319492.
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94US-00357577.
94US-00363233.
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94US-00337608
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                                          18-MAY-1994;
06-JUL-1994;
15-AUG-1994;
16-AUG-1994;
17-AUG-1994;
19-AUG-1994;
02-SEP-1994;
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23-SEP-1994;
28-SEP-1994;
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07-0CT-1994;
11-0CT-1994;
04-NOV-1994;
10-NOV-1994;
28-NOV-1994;
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23-DEC-1994;
30-JAN-1995;
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Modak A,
Tracz D,
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ö Gaps ö 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; vative 0; Mismatches 2; Indels 12; Conservative Similarity Query Match Best Local S Matches ð

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AAT57034 standard; RNA; 15 BP. AAT57034; AAT57034/ 1222E

RESULT 1505

(revised)

27-AUG-2003

Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene; translocation; chromic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atherosclerosis; myozafdial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS; RSV 1C hammerhead ribozyme target sequence (nt. position 163) 94US-00201109.
94US-00218934.
94US-00221958.
94US-00221958.
94US-00221932.
94US-00291932.
94US-00291433.
94US-00291433.
94US-00291433.
94US-00391433.
94US-00391433. 94US-00321993. 94US-00334847. 94US-00337608. 94US-00345516 94US-00357577 95US-00380734 95WO-IB000156 Respiratory syncytial virus. (revised)
(first entry) WO9523225-A2 25-MAR-2003 24-APR-1997 23-FEB-1995; 03-OCT-1994 04-NOV-1994 31-AUG-1995. 15-AUG-1994 08-SEP-1994 23-SEP-1994 28-SEP-1994 18-MAY-1994 02-SEP-1994 23-SEP-1994 16-AUG-1994

Stinchcomb DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW; Grimm S, Karpeisky A, Kisich K, Matulic-Adamic J, McGwiggen JA; Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD; Tracz D, Usman N, Wincott FE, Woolf T; WPI; 1995-351090/45.

(RIBO-) RIBOZYME PHARM INC

Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.

Claim 2; Page 269; 407pp; English.

The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves mRNA coding for a protein of respiratory syncytial virus (RSV) at the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and

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Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; RSV; bcr-ab; oncogene; translocation; chronic myelogeneus leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atherosclerosis; myocardial infarction; stroke, restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human relA hammerhead ribozyme target sequence (nt. position 129).
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94US-00218934.
94US-00222795.
95US-00380734.
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                                        (RIBO-) RIBOZYME PHARM INC.
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Best Local Similarity 50.0
Matches 7; Conservative
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                                                                                                                                                                                  WPI; 1995-351090/45.
                                                                                 Stinchcomb DT,
    30-JAN-1995;
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18-APR-1997
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04-APR-1994;
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Modak A,
Tracz D,
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synthesised with modifications that improve their nuclease resistance. The riboxymes cleave the target sequences and can be used for treatment and diagnosis of RSV infection. (Updated on 25-MAR-2003 to correct PI field.) (Updated on 27-AUG-2003 to correct OS field.)
                                                                                                                                                                                    Gaps
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0
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                                                                                                                                         3; DB 1; Length 15; 9e+02; Indels
                                                                                                    Sequence 15 BP; 8 A; 2 C; 0 G; 0 T; 5 U; 0 Other;
                                                                                                                                           Score 10.8; DB
Pred. No. 9e+02
0; Mismatches
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94US-00218934.
94US-00227958.
94US-00227958.
94US-002245736.
94US-00245736.
94US-00291823.
94US-00291823.
94US-00291823.
94US-00391839.
94US-00311749.
94US-00311749.
94US-003119492.
94US-003119492.
94US-003119492.
94US-003119492.
94US-003119492.
94US-003119492.
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                                                                                                                                           Query Match
Best Local Similarity 85.7%;
Matches 12; Conservative
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(revised)
(first entry)
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25-MAR-2003
04-APR-1997
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15-AUG-1994;
16-AUG-1994;
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19-AUG-1994;
02-SEP-1994;
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b DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
Usman N, Wincott FE, Woolf T;
                                                                                                                                                                                                                                                                                                        Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 4 A; 5 C; 1 G; 0 T; 5 U; 0 Other;
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Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene; translocation; dironic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atheroselerosis; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
                                          RSV N hammerhead ribozyme target sequence (nt. position 1181)
                                                                                                                                                                                                                                                                                Respiratory syncytial virus.
(revised)
(first entry)
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23-SEP-1994;
23-SEP-1994;
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03-OCT-1994;
07-OCT-1994;
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16-AUG-1994;
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02-SEP-1994;
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04-NOV-1994;
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25-MAR-2003
19-MAR-1997
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Modak A,
Tracz D,
The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves relA mRNA at the nucleotide base position indicated in the DE line. The relA gene product is a subunit of the transcriptional regulator NF-kappaB and is implicated specifically in the induction of inflammatory responses. Regions of the mRNA that do not form secondary folding structures and that contain permitted and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes are designed to cleave the target cuestul for treating rheumatoid arthritis, restenosis and asthma as well as for increasing tolerance to transplanced itssues. The potentially immunosuppressive properties of a ribozyme that cleaves relA mRNA means that uses are limited to local delivery, acute indications or ex vivo
                                                                                                                                                                                                                                                                                                                                                                                                                                   o DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Karpelsky A, Kisich K, Maulic-Adamic J, Mcswiggen JA;
Pavco P, Bejeleman L, Sullivan SM, Sweedler D, Thompson JD;
Usman N, Wincott FE, Woolf T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 15 BP; 1 A; 8 C; 4 G; 0 T; 2 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 2; Page 228; 407pp; English.
94US-00224483.
94US-0022958.
94US-00245736.
94US-00271280.
94US-0029132.
94US-00291433.
94US-0029520.
94US-0039520.
94US-0030309.
94US-0031486.
94US-0031486.
94US-0031486.
94US-0031486.
94US-0031486.
94US-0031486.
94US-003148771.
94US-00314847.
94US-00314847.
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94US-00363233
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 78.6
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1995-351090/45
                                                                06-JUL-1994;
15-AUG-1994;
16-AUG-1994;
17-AUG-1994;
19-AUG-1994;
02-SEP-1994;
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23-SEP-1994;
23-SEP-1994;
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16-DEC-1994;
23-DEC-1994;
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03-OCT-1994;
07-OCT-1994;
11-OCT-1994;
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Modak A,
Tracz D,
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b DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
Ugman N, Winoct FE, Woolf T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves mRNA coding for a protein of respiratory syncytial virus (RSV) at the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and
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                                                                       94US-00218934.
94US-00224795.
94US-00224795.
94US-00227968.
94US-00215736.
94US-00291932.
94US-00291433.
94US-00291433.
94US-00291433.
94US-00391486.
94US-00311486.
94US-00311486.
94US-00311749.
94US-00311486.
94US-00311749.
94US-00316971.
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95US-00380734
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95WO-IB000156
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BP.

AAT57431 standard; RNA; 15

RESULT 1508

8

(revised)

27-AUG-2003

AAT57431;

AAT57431/c
ID AAT574
XX
AC AAT574
XX
DT 27-AUG

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Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene; translocation; chronic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atherosolarosals; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial ischaemia; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human ICAM hammerhead ribozyme target sequence (nt. position 2759)
                                                                                                                                                                                                                                                                                                                                                             Query Match

0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches 2; Indels
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94US-00218934.
94US-00222795.
94US-00224483.
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              (RIBO-) RIBOZYME PHARM INC.
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24-MAR-1997 (first entry)
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                                                                                                  WBI; 1995-351090/45.
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29-MAR-1994;
04-APR-1994;
07-APR-1994;
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                                                                                                                                                                                                                                                                                                                                      Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; rNF-alpha; respiratory syncytial virus; RSV; bor-abl; oncogene; ransiocation; fornoic myelogenous leuksemia; CML; cancer; philadelphia chromosome; inflammation; autoimmune disease; atherosclerosis; myocardial infarction; stroke; restenosis; attenoplant rejection; rheumatoid arthritis; psoriasis; myocardial; kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
synthesised with modifications that improve their nuclease resistance. The riboxymes ofleave the target sequences and can be used for treatment and diagnosis of RSV infection. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                  Human ICAM hammerhead ribozyme target sequence (nt. position 1509)
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0
                                                                                     . Match 0.5%; Score 10.8; DB 1; Length 15; Local Similarity 85.7%; Pred. No. 9e+02; les 12; Conservative 0; Mismatches 2; Indels
                                                              Sequence 15 BP; 4 A; 1 C; 4 G; 0 T; 6 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94US-00201109.
94US-0021834.
94US-00224483.
94US-00224483.
94US-00224584.
94US-0024536.
94US-00292620.
94US-00291433.
94US-00291433.
94US-00391433.
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94US-00311486.
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                                                                                                                                       979 AAGCTCTACTCCAT 992
                                                                                                                                                                                                                             AAT51908 standard; RNA; 15
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(first entry)
                                                                                                                                                             14 AAGCTCTACATCAT 1
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18-MAY-1994;
06-JUL-1994;
15-AUG-1994;
16-AUG-1994;
17-AUG-1994;
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07-OCT-1994;
11-OCT-1994;
04-NOV-1994;
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09-MAR-1997
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02-SEP-1994;
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                                                                                         Query Match
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Gaps

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The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves ICAM-1 mRNA. Regions of the mNNA that condary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these manks sequences were designed and synthesised with modifications that emprove their nuclease resistance. The ribozymes cleave the ICAM-1 target sequences and thereby inhibit ICAM-1 expression, making them useful for reducing transplant rejection and alleviating symptoms in patients with rheumacoid arthritis, asthma and other inflammatory disorders. (Updated on 25-MAR-2003 to correct PI field.)
Grimm S, Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
Tracz D, Usman N, Wincott FE, Woolf T;
                                                                                                                                                                                                                                                                                                                                                                         Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
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b DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW; Karpeisky A, Kisich K, Marulic-Adamic J, Mcswiggen JA; Pavco P, Bejgleman L, Sullivan SM, Sweedler D, Thompson JD; Usman N, Wincott FE, Woolf T;
Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; RSy; bcr-abl; oncogene; translocation; chronic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atheroselerosis; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial; kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
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94US-00222795.
94US-00227958.
94US-00227968.
94US-0021536.
94US-00291932.
94US-00291832.
94US-00293520.
94US-00293520.
94US-00393520.
94US-0031648.
94US-00316492.
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                                                                                                                                                                                                                                          Respiratory syncytial virus.
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15-APR-1994;
18-APR-1994;
18-MAY-1994;
06-UUL-1994;
15-AUG-1994;
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19-AUG-1994)
08-SEP-1994)
08-SEP-1994,
23-SEP-1994,
23-SEP-1994)
03-OCT-1994,
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04-NOV-1994;
10-NOV-1994;
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Modak A,
Tracz D,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Stinchcomb DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW; Grimm S, Karpelsky A, Kisich K, Matulic-Adamic J, Mcswiggen JA; Modak A, Pavco P, Baljeman L, Sullivan SM, Sweedler D, Thompson JD; Tracz D, Usman N, Wincott FE, Woolf T;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 2; Page 175; 407pp; English.
        94US-00227958.
94US-00228041.
94US-00271280.
94US-0029132.
94US-00292620.
94US-00292620.
94US-0030309.
94US-00311486.
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94US-003114871.
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AAT57036/c
ID AAT57036 standard, RNA; 15
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25-MAR-2003
24-APR-1997
          15-APR-1994)
18-APR-1994)
18-APR-1994
06-JUL-1994
115-AUG-1994
117-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                      16-DEC-1994;
23-DEC-1994;
30-JAN-1995;
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The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves relA mRNA at the nucleotide base position indicated in the DE line. The relA gene product is a subunit of the transcriptional regulator NF-KappaB and is implicated specifically in the induction of inflammatory responses. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites mRNA sequences by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nucleas resistance. The ribozymes are designed to cleave the target sequences and thereby inhibit relA expression, making them potentially useful for treating rheumatoid arthritis, restenosis and asthma as well as for increasing tolerance to transplanted tissues. The potential communosuppressive properties of a ribozyme that cleaves relA mRNA means that uses are limited to local delivery, acute indications or ex vivo treatment. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adinesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene; translocation; dironic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; artherosclerosis; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
Thompson JD;
                                                                                                                                       Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
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0
Sweedler D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query March 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 1 A; 9 C; 1 G; 0 T; 4 U; 0 Other;
Sullivan SM,
Woolf T;
                                                                                                                                                                                                                                Claim 2; Page 225; 407pp; English.
   Beigleman L,
Wincott FE,
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94US-00218934.
94US-00222795.
94US-00224483.
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   Pavco P,
Usman N,
                                                                                         WPI; 1995-351090/45.
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29-MAR-1994;
04-APR-1994;
07-APR-1994;
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   Modak A,
Tracz D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAT54997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; INF-alpha; respiratory syncytial virus; RSV; bcr.abl; oncogene; translocation; dironic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atheroselerosis; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial ischaemia; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dudycz LW;
Mcswiggen JA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse relA hammerhead ribozyme target sequence (nt. position 613).
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                                                    Score 10.8; DB 1; Length 15;
Pred. No. 9e+02;
0; Mismatches 2; Indels
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Grimm S, Karpeisky A, Kisich K, Matulic-Adamic J,
   Sequence 15 BP; 7 A; 3 C; 0 G; 0 T; 5 U; 0 Other;
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94US-00292620.
94US-00300000.
94US-00303039.
94US-00311486.
94US-003114397.
94US-00316771.
94US-00319492.
94US-00319492.
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94US-00218934.
94US-00222795.
94US-00224483.
94US-00227958.
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94US-00271280.
94US-00291932.
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94US-00345516.
94US-00357577.
                                                                                                                                                                                                                                                                                                                                                                                AAT54831 standard; RNA; 15 BP.
                                                             0.5%;
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                                                                                                                                                                        944 TTGGTTTAATGTAT 957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                       Query Match
Best Local Similarity 85.7<sup>3</sup>
Matches 12; Conservative
                                                                                                                                                                                                                                   14 rragiraaargrar 1
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07-APR-1997 (first en
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17-AUG-1994;
19-AUG-1994;
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15-APR-1994;
18-MAY-1994;
06-JUL-1994;
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08-SEP-1994;
23-SEP-1994;
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07-OCT-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-JAN-1995;
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04-NOV-1994
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94US-00245736. 94US-00271280. 94US-00291932. 94US-00292620. 94US-00293520. 94US-00300000. 94US-00303939.

18-MAY-1994 06-UUL-1994 15-AUG-1994 17-AUG-1994 17-AUG-1994 19-AUG-1994 02-SEP-1994 23-SEP-1994

94US-00311749. 94US-00314397. 94US-00316771.

23-SEP-1994; 28-SEP-1994; 03-OCT-1994

94US-00319492. 94US-00321993. 94US-00334847.

07-OCT-1994; 11-OCT-1994; 04-NOV-1994;

94US-00337608. 94US-00345516. 94US-00357577.

95US-00380734

23-DEC-1994;

28-NOV-1994 16-DEC-1994 10-NOV-1994

(RIBO-) RIBOZYME PHARM INC.

Stinchcomb

Grimm S, Modak A, Tracz D,

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The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves mRNA coding for a protein of respiratory sproytial virus (RSV) at the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        b DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Karpeisky A, Kisich K, Marulic-Adamic J, Mcswiggen JA;
Pavco P, Bejeleman L, Sullivan SM, Sweedler D, Thompson JD;
Usman N, Wincott FE, Woolf T;
                                                                                              gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; interacellular adhesion molecule; rel A; tumour necrosis factor; try-alpha; respiratory syncytial virus; RSV; bor-abl; oncogene; translocation; chronic myelogenous leukaemia; CML; cancer; philadelphia chromosome; inflammation; autoimmune disease; atherosclerosis; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial; Kawaeaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
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                                                                                Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
                                       ASV 1C hammerhead ribozyme target sequence (nt. position 76)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 2; Page 269; 407pp; English.
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94US-00291932.
94US-00291832.
94US-00319030.
94US-00311486.
94US-00311486.
94US-00311499.
94US-00311943.
94US-00311943.
94US-00311943.
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94US-00218934.
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94US-00227958.
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                                                                                                                                                                                                                                                                                                                                             Respiratory syncytial virus.
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  (first entry)
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24-APR-1997
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Modak A,
Tracz D,
  The present sequence represents a preferred target sequence for an entractic claves relab manh at the nucleotide base position indicated in the DE line. The rela gene product is a subunit of the transcriptional regulator NF-kappaB and is implicated specifically in the induction of inflammatory responses. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences of prompter analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes are designed to cleave the target sequences and thereby inhibit relA expression, making them potentially useful for treating rheumatoid arthritis, restenosis and aschma as well as for increasing tolerance to transplanted tissues. The potential immunouspressive properties of a ribozyme that cleaves relA mRNA means that uses are limited to local delivery, acute indications or ex vivo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               b DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
Usman N, Winoct FE, Woolf T;
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Claim 2; Page 228; 407pp; English.

WPI; 1995-351090/45

В В

AAT56992 standard; RNA; 15

1514

(revised)

27-AUG-2003 25-MAR-2003

AAT56992;

RESULT 15
AATS6992
ID AATS
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DT 25-M

1015 GAAAAAGAGGGGA 1028

GAAGATGAGGGGGA 1

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Ouery Match
Best Local Similarity 85./v
Best Local 2; Conservative

AAT52280 RESULT

Best Loca Matches

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The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves ICAM-1 mRNA at the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes disected against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes cleave the ICAM-1 target sequences and thereby inhibit ICAM-1 expression, making them useful for reducing transplant arejection and alleviating symptoms in patients with rheumatoid arthritis, asthma and other inflammatory disorders. (Updated on 25-WAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Enkrymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virus; Ry, bcr-ab; oncogene; translocation; dironic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atheroselerosis; myoardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
                            Stinchcomb DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Grimm S, Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
Tracz D, Usman N, Wincott FE, Woolf T;
                                                                                                                                                                Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15 BP; 4 A; 5 C; 1 G; 0 T; 5 U; 0 Other;
                                                                                                                                                                                                                             Claim 2; Page 178; 407pp; English.
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94US-00218934.
94US-00222795.
94US-00224483.
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(first entry)
(RIBO-) RIBOZYME PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 0.5
Best Local Similarity 57.1
Matches 8; Conservative
                                                                                                                                  WPI; 1995-351090/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-FEB-1994;
29-MAR-1994;
04-APR-1994;
07-APR-1994;
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18-APR-1997
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  The ribozymes cleave the target sequences and can be used for treatment and diagnosis of RSV infection. (Updated on 25-WAR-2003 to correct PI field.) (Updated on 27-AUG-2003 to correct OS field.)
                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mouse ICAM hammerhead ribozyme target sequence (nt. position 987)
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0
                                                                                                               3; DB 1; Length 15;
9e+02;
thes 2; Indels
                                                                               Sequence 15 BP; 7 A; 0 C; 3 G; 0 T; 5 U; 0 Other;
                                                                                                                 0.5%; Score 10.8; D
57.1%; Pred. No. 9e+0
ative 4; Mismatches
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94US-00218934.
94US-00224483.
94US-00224483.
94US-00224932.
94US-0029132.
94US-0029132.
94US-0029132.
94US-0029132.
94US-00391433.
94US-00391433.
94US-00391433.
94US-0031446.
94US-0031446.
94US-0031449.
94US-00334447.
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95US-00380734
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1 AUUGAGUAUGAUAA 14
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(first entry)
                                                                                                                                                          8; Conservative
                                                                                                                        Query Match
Best Local Similarity
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03-OCT-1994;
07-OCT-1994;
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07-APR-1994;
15-APR-1994;
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16-AUG-1994;
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02-APR-1997
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29-MAR-1994
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Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respiratory syncytial virue; Ry, bcr-ab; oncogene; translocation; chronic myelogenous leukaemis; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease; atheroselerosis; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial; Kawasaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
     Mouse ICAM hammerhead ribozyme target sequence (nt. position 723).
                                                                                                                                                                                              Mus musculus.
                                                                                                                                                                                                                        WO9523225-A2.
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19-AUG-1994;
02-SEP-1994;
08-SEP-1994;
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18-MAY-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Grimm S,
Modak A,
Tracz D,
The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves relA mRNA at the nucleotide base position indicated in the DE line. The relA gene product is a subunit of the transcriptional regulator NF-kappaB and is implicated specifically in the induction of inflammatory responses. Regions of the mRNA that do not form secondary folding structures and that contain product analysis. Ribozymes directed against these mRNA sequences were designed and halrpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their sequences and thereby inhibit relA expression, making them potentially useful for treating rheumatoid arthritis, restenosis and asthma as well as for increasing tolerance to transplanted itssues. The potentially immunosuppressive properties of a ribozyme that cleaves relA mRNA means that uses are limited to local delivery, acute indications or ex vivo treatment. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                           b DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
Usman N, Wincott FE, Woolf T;
                                                                                                                                                                                                                                                                                                                                                                                                                           Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Seguence 15 BP; 2 A; 4 C; 5 G; 0 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 2; Page 228; 407pp; English.
94US-00227958.
94US-0028041.
94US-00271280.
94US-00291932.
94US-00292620.
94US-00292620.
94US-00293220.
94US-00393030.
                                                                                                                               94US-00311486.
94US-00311749.
94US-00314397.
94US-00316771.
94US-0031993.
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94US-00337608.
94US-00345516.
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94US-00363233.
95US-00380734.
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                                                                                                                                                                      03-OCT-1994;
07-OCT-1994;
11-OCT-1994;
04-NOV-1994;
10-NOV-1994;
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23-DEC-1994;
30-JAN-1995;
                                                                                         19-AUG-1994;
02-SEP-1994;
08-SEP-1994;
23-SEP-1994;
23-SEP-1994;
28-SEP-1994;
                                                    15-AUG-1994;
16-AUG-1994;
17-AUG-1994;
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                                                                                                                                                                                                                                                                                                                                                   Grimm S,
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Tracz D,
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The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves ICAM-1 mRNA at the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes cleave the ICAM-1 target sequences and thereby inhibit ICAM-1 expression, making them useful for reducing transplant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     b DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
Karpeisky A, Kieich K, Matulic-Adamic J, Mcswiggen JA;
Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
Usman N, Wincott FE, Woolf T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
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94US-00201109.
94US-00218934.
94US-00224483.
94US-00224483.
94US-00224536.
94US-0021132.
94US-00291433.
94US-00291433.
94US-00291433.
94US-00391433.
94US-00391433.
94US-00391433.
94US-00391433.
94US-00311486.
94US-00311486.
94US-00311486.
94US-00311486.
94US-00311486.
94US-00311486.
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Gaps .;

818 GCCTGGAGTGCACG 831

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Best Loc Matches

GUCUGUAGUGCACG 15

AAT52255 standard; RNA; 15

RESULT 1517

AAT52255

(first entry) (revised)

25-MAR-2003 01-APR-1997

AAT52255;

SYXXEE

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(RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus.
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29-MAR-1994;
04-APR-1994;
07-APR-1994;
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rejection and alleviating symptoms in patients with rheumatoid arthritis, asthma and other inflammatory disorders. (Updated on 25-MAR-2003 to correct PI field.)
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                                                                                                                                                                                                                              Human TNF-alpha hammerhead ribozyme target sequence (nt position 1224).
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                                                       Ouery Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 57.1%; Pred. No. 9e+02; Matches 8; Conservative 4; Mismatches 2; Indels
                                      Sequence 15 BP; 3 A; 5 C; 2 G; 0 T; 5 U; 0 Other;
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94US-0021834.
94US-002244834.
94US-00224483.
94US-00224483.
94US-00221433.
94US-00231280.
94US-00231280.
94US-00231232.
94US-00231232.
94US-00231233.
94US-00314397.
94US-00314397.
94US-00314397.
94US-0031486.
94US-0031486.
94US-0031486.
94US-0031486.
94US-0031486.
94US-003148771.
94US-003148771.
94US-003148771.
94US-0031487771.
94US-0031487771.
94US-0031487771.
94US-0031487771.
94US-0031487771.
94US-0031487771.
                                                                                                                                                             AAT55768 standard; RNA; 15 BP.
                                                                                             1171 AACTTTGGGGCTCC 1184
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1 AACUUUUCAGCUCC 14
                                                                                                                                                                                                   (revised)
(first entry)
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25-MAR-1997
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                                                                                                                                          RESULT 1518
AAT55768
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Stinchcomb DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW; Stinm S, Karpelsky A, Risich K, Matulic-Adamic J, Mcswiggen JA; Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD; Tracz D, Usman N, Wincott FE, Woolf T;
                                                                                                                                                                                                                                                                                     Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
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0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 64.3%; Pred. No. 9e+02;
Matches 9; Conservative 3; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 2; Page 242; 407pp; English.
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94US-00218934.
94US-00222795.
94US-00224483.
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14-MAY-1997 (first entry)
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D DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW; Karpelsky A, Kielch K, Matulio-Adamic J, Mcswiggen JA; Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD; Usman N, Wincott FE, Woolf T;
Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition; gene expression; downregulation; interleukin-5; IL-5; ICAM-1; intercellular adhesion molecule; red A; tumour necrosis factor; rrst-alpha; respiratory syncytal virus; RSV; bcr-abl; oncogene; rtansiocation; ofkronic myelogenous leukaemia; CML; cancer; philadelphia chromosome; inflammation; autoimmune disease; atherosclerosis; myocardial infarction; stroke; restenosis; transplant rejection; rheumatoid arthritis; psoriasis; myocardial ischaemia; Kawaeaki disease; septic shock; HIV; human immunodeficiency virus; acquired immune deficiency syndrome; AlDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyms) which cleaves mRNA coding for a protein of respiratory syncytial virus (RSV) at the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyms cleavage sites were identified by computer analysis. Ribozyms directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes cleave the target sequences and can be used for treatment and diagnosis of RSV infection. (Updated on 25-MAR-2003 to correct PI field.) (Updated on 27-AUG-2003 to correct PI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 2; Page 276; 407pp; English.
                                                                                                                                                                                                                                                                                                                                                                         94US-00224483.
94US-00227958.
94US-00228041.
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94US-00291433.
94US-00292620.
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940S-00311749
940S-00316771
940S-00319492.
940S-00321993
940S-0034847.
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                                                                                                                                                                                              Respiratory syncytial virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RIBO-) RIBOZYME PHARM INC.
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                                                                                                                                                                                                                            W09523225-A2.
                                                                                                                                                                                                                                                                                            23-FEB-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23-DEC-1994;
30-JAN-1995;
                                                                                                                                                                                                                                                             31-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Stinchcomb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Grimm S,
Modak A,
Tracz D,
      ò
                                                                                                                                                                                                                                                                                                                                                                                                      b DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW; Karpelsky A, Kisich K, Matulio-Adamic J, Mcswiggen JA; Pavco P, Beigleman I, Sullivan SM, Sweedler D, Thompson JD; Usman N, Wincott FE, Woolf T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence represents a preferred target sequence for an the present cucleic acid (i.e. a ribozyme) which cleaves TNF-alpha mRNA the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes are designed to cleave the target sequences and thereby inhibit TNF-alpha expression, making them potentially useful for treating rheumatorid arthritis, septic shock and other inflammatory disorders including psoriasis, as well as for treatment of AIDS. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ribozymes having modified bases and methods for producing them - for use in inhibiting disease related genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RSV N hammerhead ribozyme target sequence (nt. position 1187).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 3 A; 7 C; 2 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 2; Page 251; 407pp; English.
                   94US-00246736.
94US-00214536.
94US-00211332.
94US-00221433.
94US-00221433.
94US-00221433.
94US-00231486.
94US-00311486.
94US-00311486.
94US-00311486.
94US-00311487.
94US-00311487.
94US-00311933.
94US-0031487.
94US-00345516.
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                                                                                                                                                                                                                                                                                                                                                                       (RIBO-) RIBOZYME PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGGCTCTGAGGAGT 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1995-351090/45.
                                                                                                                                                                                                                                                                                                                                                                                                        Stinchcomb DT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-AUG-2003
25-MAR-2003
19-MAR-1997
                                                                                                                                                                                                                                                                                                                        23-DEC-1994;
                                                                               16-AUG-1994;
17-AUG-1994;
                                                                                                                                                                                                                                                                                          28-NOV-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                       Grimm S,
Modak A,
Tracz D,
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BP; 0 A; 7 C; 0 G; 8 T; 0 U; 0 Other;

Sequence 15

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This sequence represents a polynuclectide which forms part of a peptide nucleic acid (PNA) molecule of the invention. The invention relates to compounds comprising a PNA strand including at least one PNA unit having a pryntmidine heterocyclic base which is a C-pyrimidine heterocyclic base. The invention also relates to or an iso-pyrimidine heterocyclic base. The invention also relates to compounds which optionally consist of multiple strands for increased binding affinity. The compounds (secionated PNA or bis PNA compounds) control to complementary nucleic acids with higher affinity and specificity than corresponding polynucleotides and are resistant to degradation by control or corresponding polynucleotides and are resistant to degradation by control or treating diseases such as cancer, viral infections or genetic diseases. They can also be used for research and in diagnostics for diseases. They can also be used for research and in diagnostics for catcuration and isolation of specific nucleic acid sequences and as biotechnology and research probes, primers or artificial restriction enzyme stranded DNA, restriction enzyme sites, transcription inhibition, clamping to detect point mutations and for use in Hoogsteen strands in triplexing motif
                                                 ö
                                                                                                                                                                                                                                                              Peptide nucleic acid, PNA, c-pyrimidine heterocyclic base, cancer, iso-pyrimidine heterocyclic base, increased binding affinity, treatment, degradation resistant, gene modulation, viral infection, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New peptide nucleic acid cpds - having C-pyrimidine or iso-pyrimidine heterocyclic base substitutions and opt multiple strands for increased
                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Christensen L;
                                                 .
0
                        Length 15;
                Score 10.8; DB 1; Delighter Pred. No. 9e+02; 2; Indels
                                                                                                                                                                                                                                         Oligonucleotide #8 used in peptide nucleic acid sequence.
Sequence 15 BP; 4 A; 1 C; 4 G; 0 T; 6 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dueholm KL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 56; Page 83; 116pp; English.
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Griffith M;
                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                     /*tag= a
/note= "T-Lys-NH2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC.
(PERS-) PERSEPTIVE BIOSYSTEMS.
(BUCH/) BUCHARDT D.
                                                                                                                                                                 AAZ60025 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           95WO-US009084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94US-00275951
                        Query Match
Best Local Similarity 85.7%;
Matches 12; Conservative
                                                                           973 AAGTCCAAGCTCTA 986
                                                                                          14 AACTCAAAGCTCTA 1
                                                                                                                                                                                                                11-APR-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Egholm M, Nielsen P,
Coull JM, Kiely J, G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1996-188096/19.
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                                                                                                                                                                                                                                                                                                                                                        modified base
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                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                         AAZ60025;
                                                                                                                                         RESULT 1521
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The present sequence is the peptide nucleic acid (PNA) oligomer ISIS 8129, which specifically binds 1 strand of the NFKappaB transcription factor (TF) binding site on a double stranded DNA in an anti-parallel orientation, and displaces the 2nd strand of the double stranded DNA to inhibit the binding of NFKappaB to its binding site. As the PNA can inhibit the transcriptional activation of a gene, it can be used to treat diseases associated with TF mediated gene expression, e.g. inflammatory disease, ALDS, TF mediated cancer, atherosclerosis, Down's syndrome, Alzheimer's disease, amyotrophic lateral sclerosis and parkinson's disease. The PNA can also be use to identify TF associated with certain disease states. Specifically ISIS 8129 and its parallel binding partner ISIS 9151 bind a single copy of the target with high affinity to form a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oligomer able to displace one strand of transcription factor binding site - inhibits binding of transcription factor and is useful for inhibiting expression of genes associated with inflammatory disease, AIDS, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1. .15 a /+ tag= a // tag= are bound to acetyl groups of N-(2-/note= "nucleotides are bound to acetyl groups of N-(2-aminoethyl)-acetylglycine backbone, comprising additional amino-terminal glycine and carboxy-terminal lysinamide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Peptide nucleic acid; PNA; ISIS 8129; NFkappaB; binding site; transcription factor; inhibition; activation; treatment; disease; gene; expression; inflammation; AIDS; mediation; cancer; atherosclerosis; Down's syndrome; Altheimer's; Parkinson's; amyotrophic lateral sclerosis; identification; diagnosis; triple-helix; ss.
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       Length 15;
                                                                 2; Indels
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0.5%; Score 10.8; DB 1;
85.7%; Pred. No. 9e+02;
iive 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Peptide nucleic acid oligomer ISIS 8129.
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                                                                                                                                                                                                                                                                                                                                                                                     BP.
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                                                                                                                                             1016 AAAAAGAGGGGAG 1029
                                                                                                                                                                                                                                                                                                                                                                                     AAT45456 standard; DNA; 15
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                                                                                                                                                                                                          15 AAAAGGAGAGGAG 2
                                       l Similarity 85.7
12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9635705-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAT45456;
          Query Match
Best Local &
                                                                            Matches
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04-MAY-1995;
07-JUL-1995;
07-JUL-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-AUG-1995;
05-OCT-1995;
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02-MAY-1995;
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                                                                                                                                                                                                                                     AAX65149;
                                                                                                                                                                                                                                                                                                                                                                               Mus sp.
                                                                                                                                                                                        RESULT 1524
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a novel enzymatic nucleic acid (ENA) having a hammerhead motif (HM) comprising; (i) at least 5 tibose residues (i); (ii) a 2.°C-allyl modification at position 4 of the ENA; (iii) at least ten 2.°C-allyl modification; and (iv) a 3'-end modification. The ENA's can inhibit collagenase and stromelysin production in the synovial membrane of joints for the treatment or prevention of arthritis. The ENA's can also be used to treat antigen presenting calls of adonor to induce tolerance be used to treating arthritis. They can also be used to treat antigen presenting calls of a donor to induce tolerance enhancing graft tolerance or for treating autoimmune disease, and for treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy inmacts on the expression of stromelysin without introducing the non-specific effects upon gene expression which accompany treatment with retinoids and dexamethasone.
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                                                                                                                                                                                                                        Arthritic condition; graft tolerance; immune response; target; cleavage; mammerhead ribozyme; hairpin ribozyme; human; rebbit; mouse; collagenase; stromelygin; synovial membrane; joint; arthritis; osteoarthritis; rheumatoid arthritis; autoimmune disease; allergy; inflammation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Enzymatic nucleic acid molecules having a hammer-head motif - used for
the treatment of arthritis, induction of graft tolerance or treatment
                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Stinchcomb DT, Jarvis T, Draper K, Pavco P;
Gustofson J, Usman N, Wincott F, Matulic-Adamic J;
Thompson JD, Modak A, Burgin A;
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0.5%; Score 10.8; DB 1; Length 15; larity 85.7%; Pred. No. 9e+02; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                    Mouse B7-1 hammerhead ribozyme target SEQ ID NO:1781.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10; Page 177; 307pp; English.
                                                                                                                                                                                                                                                                                                                                                                                         94US-00354920.
94US-00363253.
94US-00363254.
95US-003626124.
95US-00432874.
95US-0009951P.
                                                                                                                                 BP
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                                                   1016 AAAAGAGGGGAG 1029
                                                                                                                                 AAX65149 standard; RNA; 15
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                                                                                                                                                                              (first entry)
                                                                         AAAAGGAGAGGGAG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   auto-immune diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1996-300653/30.
    Query Match
Best Local Similarity
Matches 12; Conserv
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Mcswiggen J,
Karpeisky A,
                                                                                                                                                                                                                                                                          diagnosis; ss
                                                                                                                                                                                                                                                                                                                       WO9618736-A2.
                                                                                                                                                                                                                                                                                                                                                                    22-NOV-1995;
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                                                                                                                                                                              20-JUL-1999
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02-MAY-1995
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                                                                                                           RESULT 1523
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Arthritic condition; graft tolerance; immune response; target; cleavage; hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase; stromelysin; synovial membrane; joint; arthritis; osteoarthritis; rheumatoid arthritis; autoimmune disease; allergy; inflammation;
The concentration of ribozyme required to affect a therapeutic treatment is lower than that required of antisense molecules, and is highly specific. The present sequence is used in the exemplification of the present invention
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the treatment of arthritis, induction of graft tolerance or treatment of
                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pavco P;
Matulic-Adamic J;
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0
                                                                                                                                                                                                    Score 10.8; DB 1; Length 15;
Pred. No. 9e+02;
4; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mouse B7-1 hammerhead ribozyme target SEQ ID NO:1781.
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Gustofson J, Usman N, Wincott F,
Thompson JD, Modak A, Burgin A;
                                                                                                                                                      Sequence 15 BP; 3 A; 5 C; 3 G; 0 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 10; Page 177; 307pp; English.
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94US-00363254.
94US-00390850.
95US-00426124.
95US-00432874.
95US-000951P.
95US-000954P.
95US-000954P.
95US-000954P.
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                                                                                                                                                                                                                                                                                                                         757 TGCCATGCAGGTTT 770
                                                                                                                                                                                                                                                                                                                                                          2 UGCCAUCCAGGCUU 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX65149 standard; RNA; 15
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                                                                                                                                                                                                                                                                   8; Conservative
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                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      diagnosis; ss.
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Mcswiggen J,
Karpeisky A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Enzymatic nucleic acid molecules having a hammer-head motif - used for the treatment of arthritis, induction of graft tolerance or treatment of auto-immune diseases.
be used to treat antigen presenting cells of a donor to induce tolerance in a recipient to an alloantigen of a donor. They can also be used for treating graft tolerance or for treating autoimmune disease, and for treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therezpy impacts on the expression of stromelysin without introducing the non-specific effects upon gene expression which accompany treatment with retinoids and dexamethasone. The concentration of tibozyme required to affect a therspectic treatment is lower than that required of antisense molecules, and is highly specific. The present sequence is used in the exemplification of the
                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       I, Jarvis T, Draper K, Pavco P;
Usman N, Wincott F, Matulic-Adamic
Modak A, Burgin A;
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0
                                                                                                                                                                                                                  Query Match

0.5%; Score 10.8; DB 1; Length 15;

Best Local Similarity 85.7%; Pred. No. 9e+02;

Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human B7-1 hammerhead ribozyme target SEQ ID NO:1340.
                                                                                                                                                                                       Sequence 15 BP; 3 A; 5 C; 3 G; 0 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 10; Page 168; 307pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   94US-00354920.
94US-00363253.
94US-00363254.
95US-00426114.
95US-00432874.
95US-000951P.
95US-000974P.
95US-000974P.
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Thompson JD,
                                                                                                                                                                                                                                                                                                                                                                                           AAX64708 standard; RNA; 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                               15 AAGCCTGGATGGCA 2
                                                                                                                                                                                                                                                                                   AAGCCTGGAGTGCA
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                                                                                                                                                          present invention
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Mcswiggen J,
Karpeisky A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 diagnosis; ss
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02-MAY-1995;
04-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
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05-0CT-1995;
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17-FEB-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
present invention describes a novel enzymatic nucleic acid (ENA)
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Gustofson J, Usman N, Wincott F, Matulic-Adamic
Thompson JD, Modak A, Burgin A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 1 A; 8 C; 3 G; 0 T; 3 U; 0 Other;
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94US-00363253.
94US-00363254.
95US-00390850.
95US-00426124.
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950S-00434509.
950S-0000951P.
950S-0000974P.
950S-00512861.
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                                                                                                                                                                                                                                                                                                                                                                                                                                present invention
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Mcswiggen J,
Karpeisky A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diagnosis; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
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02-MAY-1995;
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The present invention describes a novel enzymatic nucleic acid (ENA) having a hammerhead motif (HM) comprising; (i) at least 5 ribose residues (ii) a 2'-callyl modification at position 4 of the ENA; (iii) at least ten 2'-callyl modifications; and (iv) a 3'-end modification. The ENA's can inhibit collagenase and stromelysin production in the synovial membrane of joints for the treatment or prevention of arthritis, particularly osteoarthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance in a recipient to an alloantigen of a donor. They can also be used for chanding graft tolerance or for treating autoimmune disease, and for treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of stromelysin without introducing the non-specific effects upon gene expression which accompany treatment with retinoids and dexamethasone. The present than that required of antisense molecules, and is highly specific. The present sequence is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Prodn. of nucleoside dimers with methylenedioxy linkage - by reacting 5'-protected nucleoside 3'-methylthio:methyl ether and 3'-protected nucleoside with bromine.
           Enzymatic nucleic acid molecules having a hammer-head motif - used for the treatment of arthritis, induction of graft tolerance or treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OCH2O linkage; analogue; 2,6-diethylpyridine; DEP; molecular sieve;
tetrabutylammonium fluoride; TBAF; tetrahydrofuran; chemical synthesis;
THF: thioformacetal linkage; diagnostic agent; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 10.8; DB 1; Length 15;
Pred. No. 9e+02;
6; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 5 A; 1 C; 2 G; 0 T; 7 U; 0 Other;
                                                                                  Claim 10; Page 168; 307pp; English.
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89US-00448941.
90US-00559957.
91US-00690786.
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Best Local Similarity 42.9%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         943 ATTGGTTTAATGTA 956
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                 auto-immune diseases.
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                                                                                                                                                                                                                                                                                                                                                                                                                              present invention
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24-APR-1991;
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                                   The invention relates to a method for linking a first nucleoside or oligonucleotide to a second nucleoside or nucleotide through an OCHIZO linkage, starting with a 5'-protected nucleoside or nucleotide which is derivatised in the 3'-posttion with an OCHIZSMe group. The method comprises (a) treating the derivatised nucleoside or nucleotide and a 3'-postected nucleoside or nucleotide and a 3'-postected nucleoside or nucleotide and a structured nucleotide or nucleotide and with tetrabutylammonium fluoride (TDAF) in tetrahydrofuran (THF). The COHIZO-linked dimers can be used in the synthesis of oligonucleotide analogues (containing thioformacetal linkages) e.g. useful as diagnostic agents (see WO9106629)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a method for linking a first nucleoside or oligonucleotide to a second nucleoside or nucleotide through an OCH220 linkage, erating with a 5-proected nucleoside or nucleotide which is derivatised in the 3' position with an OCH28Ne group. The method comprises (a) treating the derivatised nucleoside or nucleotide and a 3'-protected nucleoside or nucleotide and en a 3'-diethylpyridine (DEP) and molecular sieves; and (b) treating the proceed with tetrabutylammonium fluoride (TBAF) in tetrahydrofuran (THF). The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OCH2O linkage; analogue; 2,6-diethylpyridine; DEP; molecular sieve;
terraburylammonium fluoride; TBAF; tetrahydrofuran; chemical synthesis;
THF: thioformacetal linkage; diagnostic agent; ss.
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                                                                                                                                                                                                                                                     Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
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             Example 5; Col 30; 27pp; English.
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90US-00559957.
91US-00690786.
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Best Local Similarity 85.7°
Matches 12, Conservative
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30-JUL-1990;
24-APR-1991;
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Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a method for linking a first nucleoside or oligonucleotide to a second nucleoside or nucleotide through an OCH2O linkage, starting with a 5'-protected nucleoside or nucleotide which is derivatised in the 3' position with an OCH2SMe group. The method comprises (a) treating the derivatised nucleoside or nucleotide and a 3'-protected nucleoside or nucleotide with bromine in the presence of 2.6 diethylpyridine (DEP) and molecular sieves, and (b) treating the product with tetrabutylammonium fluoride (TBAF) in tetrahydrofuran (TBF). The one OCH2O-linked dimers can be used in the synthesis of oligonucleotide analogues (containing thioformacetal linkages) e.g. useful as diagnostic agents (see WO9106629)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleoside dimers with methylenedioxy linkage - by reacting 5'-nucleoside 3'-methylthio:methyl ether and 3'-protected
  OCH2O-linked dimers can be used in the synthesis of oligonucleotide analogues (containing thioformacetal linkages) e.g. useful as diagnostic agents (see WO9106629)
                                                                                                                                                                                                                                                                                               OCH20 linkage; analogue; 2,6-diethylpyridine; DEP; molecular sieve; tetrabutylammonium fluoride; TBAF; tetrahydrofuran; chemical synthesis; THF: thioformacetal linkage; diagnostic agent; ss.
                                                                                              Gaps
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                                                                     0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
rive 0; Mismatches 2; Indels
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                                               Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 5; Col 30; 27pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                         89US-00426286.
89US-00448941.
90US-00559957.
91US-00690786.
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                                                                                                                    1016 AAAAAGAGGGGAG 1029
                                                                                                                                                                                                                                                                                                                                                                                                                     92US-00874334
                                                                                                                                                                                                    AAX32949 standard; DNA; 15
                                                                                                                                                                                                                                                                         Seg ID No: 16 of US5495009
                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                           15 AAAAGAGAGAGAG 2
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Best Local Similarity 85.7
Matches 12; Conservative
                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Prodn. of nucleoside dim
protected nucleoside 3'-
nucleoside with bromine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1996-178794/18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GILE-) GILEAD SCI
                                                                                  Local Similarity
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11-DEC-1989;
30-JUL-1990;
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                                                                                                                                                                                                                                                                                                                                                                                            27-FEB-1996
                                                                                                                                                                                                                                                                                                                                                Synthetic.
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                                                                       Query Match
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                                                                                                                                                                             RESULT 1529
                                                                                              Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Prodn. of nucleoside dimers with methylenedioxy linkage - by reacting 5'-protected nucleoside 3'-methylthio:methyl ether and 3'-protected
                                                                                                                                                                                                               OCH2O linkage; analogue; 2,6-diethylpyridine; DEP; molecular sieve;
tetrabutylammonium fluoride; TBAF; tetrahydrofuran; chemical synthesis;
THF: thioformacetal linkage; diagnostic agent; ss.
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                                                                                                                                                            Oligo containing formacetal and thioformacetal linkages.
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89US-00448941.
90US-00559957.
91US-00690786.
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  ВЪ.
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AAX32948 standard; DNA; 15
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Best Local Similarity
Matches 12; Conserv
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24-APR-1991;
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Gaps

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1016 AAAAAGAGGGGAG 1029

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Oryctolagus cuniculus.
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Specifically designed oligodeoxyribonucleotides form triplexes in single-
or double-strand DNA at homopurine-homopyrimidine targets. These
triplexes block in vitro DNA synthesis by all DNA polymerases studied,
including Sequenases. Taq, Vent, and Pol I. A similar phenomenon occurs
when DNA polymerases are supplemented with accessory replication
proteins, including SBB protein. Replication blockage is highly sequence-
specific and even one or two point substitutions within either the target
sequence or the oligonucleotide abolish the effect. Sequence-specific
blocking of DNA replication in vivo is facilitated by the methods and
compositions of the present invention. The present sequence is the ORF-Bc
human papilloma virus (HPV) terrget (position 436-452 in HPV57 and 438-452
in HPV2) for triplex-forming oligonucleotides AAT35030-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage; neutral lipid transfer; plasma lipoprotein; atherosolerosois; atherectomy; reverse cholesterol transport; high density lipoprotein; therapy; CTPP; familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia; peripheral vascular disease; hyperbetalipoproteinaemia; angloplastic restenosis; low density lipoprotein; diabetes; HDL; rabbit; LDL; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence specific inhibition of DNA synthesis - by triplex-forming oligo:nucleotide(s), for detection of oncogene mutation(s) and treatment of e.g. HSV, Hepatitis C and Papillomavirus infection.
                                                   HBV; oligodeoxyribonucleotide; homopurine-homopyrimidine target; block; in vitro; DNA synthesis; DNA polymerase; Sequenase3; Taq; Vent; Pol I; accessory replication protein; SSB protein; sequence-specific; triplex forming oligonucleotide; exon 3; inverted repeat; IR110; hepatitis B virus; P gene; ss.
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                   HPV ORF-Ec target for triplex-forming oligo.
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                                                                                                                                                                                                                                                                                                                                                                                              Samadashwily GM;
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                                                                                                                                                                                                                                                                                                                                                                                              Mirkin SM,
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                                                                                                                                                                     Synthetic
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AAT50138-T50359 represent target sequences for the rabbit cholesterol ceter transfer protein (CETP) hammerhead (HH) ribozymes (see AAT50160-CCT 50546). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme are able to cleave mRNA from the gene encoding CETP, thereby blocking cynthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density of lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, familial computations of diabetes, transplant, atherosclerosis, familial complications of diabetes, transplant, atheroctions and angioplastic restenosis. By inhibiting CETP, the levels of HDL and low density createnosis. By inhibiting CETP, the levels of HDL and now density createnosis. By inhibiting CETP, the levels of HDL and now density createnosis. By inhibiting CETP, the levels of HDL and low density createnosis in LDL), and the HDL:LDL ratio are favourably altered (a mutations in diseased cells, and to detect CETP mRNA. As the HH ribozymes can also be used diagnostically to study genetic drift and carrier appears the CETP man and they have low non-specific
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA -
useful for preventing or treating initial development, progression or
regression of vascular diseases, esp. familial hypercholesterolaemia.
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                                                                                                                                                                                                                                                                                                               Couture L, Stinchcomb D, Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 4; Page 41; 72pp; English.
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95WO-US016000.
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                                                                                         94US-00363240.
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                                                                                                                                                                          (RIBO-) RIBOZYME PHARM INC. (WARN ) WARNER LAMBERT CO.
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nes 11; Conserv
    11-DEC-1995;
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AAT50248

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reverse cholesterol transport; high density lipoprotein; therapy; CETP; familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia; peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor; angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;

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AAT50138-T50359 represent target sequences for the rabbit cholesterol ester transfer protein (CETP) hammerhead (HH) ribozymes (see AAT50360-T50566. CETP is a 74 kD 91ycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse choisesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, samilial hypercholesterolaemia, peripheral vascular disease, dyslipidaemia, hyperbetalipoproteinaemia, hypoalphalipoproteinaemia, vascular complications of diabetes, transplant, atherectomy and angioplastic restenosis. By inhibiting CETP, the levels of EMDL and low density and into low of the levels 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              decrease in LDL levels, and a corresponding increase in HDL levels). The HTibozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the HH ribozymes target specific regions of the CETP gene, they have low non-specific
angioplastic restenosis; low density lipoprotein; diabetes; HDL; rabbit;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA -
useful for preventing or treating initial development, progression or
regression of vascular diseases, esp. familial hypercholesterolaemia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Couture L, Stinchcomb D, Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 4; Page 40; 72pp; English.
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UUGACCUCCAGAUC 14
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                                                                                                                                                                                                                                                                                                                                                      (RIBO-) RIBOZYME PHARM (WARN ) WARNER LAMBERT
                                                                                 Oryctolagus cuniculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1996-321852/32.
                                                                                                                                                                                                                                               11-DEC-1995;
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New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA useful for preventing or treating initial development, progression or regression of vascular diseases, esp. familial hypercholesterolaemia.

Claim 4; Page 29; 72pp; English.

Bisgaier C,

Couture L, Stinchcomb D, Mcswiggen J,

WPI; 1996-321852/32.

(RIBO-) RIBOZYME PHARM INC. (WARN) WARNER LAMBERT CO.

95WO-US016000. 94US-00363240.

11-DEC-1995; 23-DEC-1994;

Homo sapiens

WO9620279-A1

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ANA ANA 9608-T49863 represent target sequences for the human cholesterol cster transfer protein (CETP) hammerhead (HH) ribozymes (see AAT49881-15017). CETP is a 74 KD Glycoprotein that facilitates neutral lipid to the bosition of the cleavage site in full length CETP. The ribozyme ct to the position of the cleavage site in full length CETP. The ribozyme ct binds to 5 nucleotides either side of this site, provided the sequence UH is immediately upstream. The ribozymes are able to cleave MRNA from the cis immediately upstream. The ribozymes are able to cleave MRNA from the companient of the ribozymes are cleaved or expression of the came encoding CETP, thereby blocking synthesis and/or expression of the came inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes and be used to treat conditions associated with abnormal levels of CETP, specifically familial hypercholesterolosterolementa, atherosclenosis, peripheral vascular disease, hypercholesterolosis. By inhibiting CETP, the levels of HDL and Low conditions complications of diabetes, transplant, atheredown and corresponding increase in LDL levels, and a corresponding increase in HDL levels. The HH ribozymes can also be used diagnostically to study genetic drift cathorymes target specific regions of the CETP gene, they have low non-confict activity
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Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage; neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;

Human CETP HH ribozyme target sequence #550.

(first entry)

28-FEB-1997

AAT49643;

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Caster transfer protein (GETP) hammerhead (HH) ribozymes (see AAT50360-
CET50546). GETP is a 74 kD glycoprotein that facilitates neutral lipid of transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme are able to cleave mRNA from the gene encoding CETP. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibiting CETP, the reverse thereby preventing the reduction in size density of the high density inpoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atheroscierosis, familial hypertholesterolaemia, peripheral vascular disease, dyslipidaemia, hyperipheral vascular disease, dyslipidaemia, hyperipheral vascular disease, dyslipidaemia, complications of diabetes, transplant, atheretocumy and angiophastic restenosis. By inhibiting CETP, the levels of HDL and low density complications of labetes, transplant, atheretocumy and angiophastic crestenosis. Lobi. levels, and a corresponding increase in LDL levels, and a corresponding increase in LDL levels of HT ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the HH ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the HH ribozymes can also be used diagnostically to study genetic drift and content and corresponding the drift and content and content of the HT ribozymes the HT ribozymes can also be used diagnostically as the HH ribozymes can also be used diagnostically as the HH ribozymes the HT ribozymes the HT ribozymes as the content of the HT ribozymes as the
Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage; neutral lipid transfer; plasma lipoprotein; atherosclerosis; atheractomy; reverse cholesterol transport; high density lipoprotein; therapy; CETP; familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia; peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor; angioplastic restenosis; low density lipoprotein; diabetes; HDL; rabbit; LDL; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA -
useful for preventing or treating initial development, progression or
regression of vascular diseases, esp. familial hypercholesterolaemia.
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                                                                                                                                                                                                                                                           Oryctolagus cuniculus.
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Bisgaier C,

Gaps . 0 0.5%; Score 10.8; DB 1; Length 15; larity 57.1%; Pred. No. 9e+02; Conservative 4; Mismatches 2; Indels Sequence 15 BP; 4 A; 5 C; 2 G; 0 T; 4 U; 0 Other; Best Local Similarity Matches 8; Conserv Query Match

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1132 TTCACCTCCAGCTC 1145 UUGACCUCCAGAUC 14

AAT50179 standard; RNA; 15 BP AAT50179; RESULT 1536 AAT50179 SXXX

AATS0138-T50359 represent target sequences for the rabbit cholesterol cster transfer protein (CETP) hammerhead (HH) ribozymes (see AAT50360-510546). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage sithe in full length CETP. The ribozyme are then binds to 5 nucleotides either side of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse consistent (RCT) pathway can be inhibited (or eliminated) therefore increasing the reduction in size density of the high density conclusions (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with the levels of CETP, specifically atherosclerosis, familial computations of diabetes, transplant, atherosclerosis, familial computations of diabetes, transplant, atherosclerosis, familial computations of diabetes, transplant, atherecomy and angioplastic restenosis. By inhibiting CETP, the levels of HDL and low density decreased in LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL) levels, and a corresponding increase in HDL levels. CH H ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the HH ribozymes can greated see they have low non-specific neutral lipid transfer; plasma lipoprotein, atherosclerosis; atherectomy, reverse cholesterol transport; high density lipoprotein; therapy, CETP; familial hypercholesterolaemia, dyslipidaemia; hypoplahalipoproteinaemia; peripheral vascular disease; hyperbetalipoproteinaemia; RCT, inhibitor; angloplastic restenosis; low density lipoprotein; diabetes; HDL; rabbit; cholesterol ester transfer protein; mRNA cleavage; New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA useful for preventing or treating initial development, progression or regression of vascular diseases, esp. familial hypercholesterolaemia. Couture L, Stinchcomb D, Mcswiggen J, Bisgaier C, Rabbit CETP HH ribozyme target sequence #372. Claim 4; Page 40; 72pp; English. 95WO-US016000. 94US-00363240. (RIBO-) RIBOZYME PHARM INC. (WARN) WARNER LAMBERT CO. (first entry) Oryctolagus cuniculus. Hammerhead ribozyme; WPI; 1996-321852/32. WO9620279-A1. 11-DEC-1995; 23-DEC-1994; 07-MAR-1997 04-JUL-1996.

activity

Gaps ö Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 57.1%; Pred. No. 96+02; Matches 8; Conservative 4; Mismatches 2; Indels Sequence 15 BP; 4 A; 5 C; 2 G; 0 T; 4 U; 0 Other;

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1 UUGACCUCCAGAUC 14 RESULT 1537 g

1132 ITCACCICCAGCIC 1145

ВЪ. AAT90241/c ID AAT90241 standard; DNA; 15

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The present sequence is a 5-methyl-2'-deoxycytidine/5-(1-propynyl)-
2'deoxyuridine modified triplex forming oligonucleotide, comprising nucleomonomer analogues of cytosine and uridine containing an unsaturated group in the pyrimidine ring. The 5-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primars for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                       Modification; triplex; duplex; nucleomonomer analogue; unsaturated group; pyrimidine ring; inhibition; gene expression; antisense; therapy; research; diagnosis; probe; primer; ss.
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hore= mall C are 5-methyl-2'-deoxycytidine all U are 5-
(1.propynyl)-2'-deoxyuridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
                                                                                Pyrimidine ring modified triplex forming oligonucleotide ON-3.
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                                                                                                                                                                                                                                                       Location/Qualifiers
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92US-00935444.
92US-00965941.
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                    (revised)
(first entry)
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Best Local Similarity 85.7
Matches 12; Conservative
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modified_base
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25-AUG-1992;
23-OCT-1992;
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03-DEC-1997
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                                                                                                                                                                       Modification, triplex, duplex, nucleomonomer analogue, unsaturated group, pyrimidine ring, inhibition, gene expression, antisense, therapy, research, diagnosis, probe, primer, ss.
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/*tal C are 5-methyl-2'-deoxycytidine all U are 5-
(3-methyl-1-butynyl)uracil"
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                                                                                                                           Pyrimidine ring modified triplex forming oligonucleotide ON-6.
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0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Froehler B, Jones RJ, Gutierrez AJ, Matteucci M,
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92US-00935444.
92US-00965941.
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Modification, triplex, duplex, nucleomonomer analogue, unsaturate pyrimidine ring, inhibition, gene expression, antisense, therapy; research; diagnosis, probe; primer; ss.
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23-OCT-1992;
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                                                Modification; triplex; duplex; nucleomonomer analogue; unsaturated group; pyrimidine ring; inhibition; gene expression; antisense; therapy; research; diagnosis; probe; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is a 5-(1-propynyl)-2'-deoxycytidine modified triplex forming oligonucleotide, comprising nucleomonomer analogues of sytosine containing an unsaturated group in the pyrimidine ring. The 5-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                         Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                   1. .15
/*tag= a
/note= "all C are 5-(1-propynyl)-2'-deoxycytidine"
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                           Pyrimidine ring modified triplex forming oligonucleotide ON-4.
                                                                                                                                                                                                                                                                                                                               Jones RJ, Gutierrez AJ, Matteucci M, Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 3; Col 59-60; 104pp; English.
                                                                                                                        Location/Qualifiers
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                                                                                                                                                                                                                                                                     92US-00935444.
92US-00965941.
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ID AAT90237 standard; DNA; 15
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(first entry)
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     (first entry)
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nes 12; Conservative
                                                                                                                                                                                                                                                                                                        GILE-) GILEAD SCI INC.
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                                                                                                                       Key
modified_base
                                                                                                                                                                                                                                  25-NOV-1992;
                                                                                                                                                                                                                                                                                23-OCT-1992;
                                                                                                                                                                                                                                                                                                                               Froehler B,
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03-DEC-1997
   03-DEC-1997
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                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                            Wagner R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
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Matches
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Pyrimidine ring modified triplex forming oligonucleotide ON-2.

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pyrimidine ring, inhibition, gene expression, antisense, therapy;
                                                              /*tag= a
/note= "all C are 5-methyl-2'-deoxycytidine all U are 5-
(1-propynyl)-2'-deoxyuridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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0.5%; Score 10.8; DB 1; Length 15;

Best Local Similarity 85.7%; Pred. No. 9e+02;

Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matteucci M, Pudlo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gutierrez AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; Col 55-56; 104pp; English.
Location/Qualifiers
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92US-00935444.
92US-00965941.
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Modification; triplex; duplex; nucleomonomer analogue; unsaturated group; pyrimidine ring; inhibition; gene expression; antisense; therapy; research; diagnosis; probe; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence is a 5-(1-propynyl)-2'-deoxycytidine modified triplex forming oligonucleotide, comprising nucleomonomer analogues of cytosine containing an unsaturated group in the pyrimidine ring. The 5-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
                                                                                   /*tag= a
/note= "all C are 5-(1-propynyl)-2'-deoxycytidine"
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                                                                                                                                                                                                                                                                                                                                                                                                   Jones RJ, Gutierrez AJ, Matteucci M, Pudlo J;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
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                                          Location/Qualifiers
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92US-00935444.
92US-00965941.
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(first entry)
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Matches 12; Conservative
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modified_base
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23-OCT-1992;
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Wagner R;
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03-DEC-1997
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                                                                            Location/Qualifiers
1. .15
/*tcat/norde="all C are 5-methyl-2'-deoxycytidine all U are (2-thienyl)-2'-deoxyuridine"
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85.7%; Pred. No. 9e+02;
ive 0; Mismatches 2; Indels
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research; diagnosis; probe; primer; ss.
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92US-00935444.
92US-00965941.
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AAT90273 standard; DNA; 15
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(first entry)
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modified_base
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25-AUG-1992;
23-OCT-1992;
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03-DEC-1997
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03-DEC-1997
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23-OCT-1992;
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Wagner R;
           misc_feature
                                          misc_feature
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Best Local S:
Matches 12
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2'deoxyuridine modified triplex forming oligomuclectide, comprising nucleomonomer analogues of cytosine and uridine containing an unsaturated group in the pyrimidine ring. The 5-substitute provides enhanced binding capacity in the pyrimidine duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
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/note= "all C are 5-methyl-2'-deoxycytidine all U are 5-
(1-propynyl)-2'-deoxyuridine"
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                                                                                                                                                                     Froehler B, Jones RJ, Gutierrez AJ, Matteucci M, Pudlo J;
Wagner R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 BP; 0 A; 5 C; 0 G; 0 T; 10 U; 0 Other;
                                                                                                                                                                                                                                                                              Example 17; Col 115-116; 104pp; English.
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92US-00965941.
                                                                                                            91US-00799824.
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modified_base
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03-DEC-1997
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23-OCT-1992;
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AAT90259/c
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Matches
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The present sequence is a 5-methyl-2'-deoxycytidine/5-(1-propynyl)-2'deoxyuridine modified triplex forming oligonaclectide, comprising nucleomonomer analogues of cytosine and uridine containing an unsaturated group in the pyrimidine ring. The S-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhance nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapoutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Jones RJ, Gutierrez AJ, Matteucci M, Pudlo J;
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                                                                                                                                                                                                /*tag= c
/note= "3'-thioformacetal linkage"
                                                                        /*tag= b
/note= "3'-thioformacetal linkage"
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(1-propynyl)-2'-deoxyuridine"
11. .12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 15; Col 101-102; 104pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    92US-00935444.
92US-00965941.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            92US-00976103.
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/*tag= (
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The present sequence is a S-methyl-2'-deoxycytidine/5-(1-propynyl)-
2'deoxyuridine modified triplex forming oligonucleotide, comprising nucleomonomer analogues of cytosine and uridine containing an unsaturated group in the pyrimidine ring. The S-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
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            5
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/*tag= a
/note= "all C are 5-methyl-2'-deoxycytidine all U
(1-propynyl)-2'-deoxyuridine"
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                                                                                                                                                                                                                                                                          Froehler B, Jones RJ, Gutierrez AJ, Matteucci M, Pudlo
Wagner R;
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/*tag= a
/note= "all C are 5-(1-propynyl)-2'-0-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 4; Col 61-62; 104pp; English
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                                                                                                                                                                                    91US-00799824.
92US-00935444.
92US-00965941.
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                                                                                                                                              92US-00976103
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Matches 12, Conservative
                                                                                                                                                                                                                                                           (GILE-) GILEAD SCI INC.
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                                                                                                                                                                                    26-NOV-1991;
25-AUG-1992;
23-OCT-1992;
                                                                                                                                                25-NOV-1992;
                                                                           US5645985-A
                                                                                                               08-JUL-1997
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  Location/Qualifiers
1. 15
/*tag= a //*tag= a //oce= "all C are 5-methyl-2'-deoxycytidine all U are 5-(2-pyridinyl)-2'-deoxyuridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                        Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay
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Wagner R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 16; Col 107-108; 104pp; English.
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92US-00935444.
92US-00965941.
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(first entry)
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modified_base
      Key
modified_base
                                                                                                                                                                                                                               26-NOV-1991;
25-AUG-1992;
23-OCT-1992;
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03-DEC-1997
                                                                                                                                                                                            25-NOV-1992;
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schultz451-1.rng

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/*tag= a
/note= "all C are 5-(2-pyridinyl)-2'-deoxycytidine"
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                                                                                                                                                                                                                                 Froehler B, Jones RJ, Gutierrez AJ, Matteucci M, Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; Live 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                   Example 18; Col 129-130; 104pp; English.
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 allyldeoxycytidine"
                                                                                                                              91US-00799824.
92US-00935444.
92US-00965941.
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                                                                                                 92US-00976103.
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(first entry)
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Best Local Similarity 85.74
Matches 12; Conservative
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                                                                                                                                                                                                (GILE-) GILEAD SCI INC.
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modified_base
                                                                                                                            26-NOV-1991;
25-AUG-1992;
23-OCT-1992;
                                                                                               25-NOV-1992;
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03-DEC-1997
                                                                08-JUL-1997
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                                                                                                                                                                                                                                                   Wagner R;
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The present sequence is a 5-(2-pryridinyl)-2'-deoxycytidine modified triplex forming oligonucleotide, comprising nucleomonomer analogues of suptraine containing an unsaturated group in the pyrimidine ring. The 5-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
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/note= "all C are 5-(1-propynyl)-2'-deoxycytidine all U
are 5-(1-propynyl)-2'-deoxyuridine"
                                                                                                                                                                                                                                                     Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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                                                                                                                                                                     Froehler B, Jones RJ, Gutierrez AJ, Matteucci M, Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                       Example 16; Col 109-110; 104pp; English.
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                                                               91US-00799824.
92US-00935444.
92US-00965941.
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                                 92US-00976103.
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(first entry)
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                                                                                                                                   (GILE-) GILEAD SCI INC.
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modified_base
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03-DEC-1997
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                               25-NOV-1992;
                                                                26-NOV-1991;
                                                                               25-AUG-1992;
23-OCT-1992;
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08-JUL-1997
                                                                                                                                                                                     Wagner R;
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The present sequence is a 5-methyl-2'-deoxycytidine/5-(1-propynyl)-2'deoxyuridine modified triplex forming oligonucleotide, comprising uncleomoner analogues of cytosine and uridine containing an unsaturated group in the pyrimidine ring. The 5-substitute provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PP field.)
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                                                                                                                                                                                                           Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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                                                                                                         Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /*tag= a
/note= "all C are 5-methyl-2'-deoxycytidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                         Gutierrez AJ, Matteucci M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                     Example 18; Col 123-124; 104pp; English,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
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92US-00935444.
92US-00965941.
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92US-00935444.
92US-00965941.
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ID AAT90236 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15 AAAAAGAGAGAG 2
                                                                                                         Jones RJ,
                                                                (GILE-) GILEAD SCI INC.
                                                                                                                                                                       WPI; 1997-362920/33.
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modified_base
  25-AUG-1992;
23-OCT-1992;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-MAR-2003
03-DEC-1997
                                                                                                         Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US5645985-A.
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                                                                                                                                  Wagner R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 1551
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                                                                                                                                                                                                                                                                                                                                                                            The present sequence is a 5-(1-propynyl)-2'-deoxycytidine/5-(1-propynyl)-2'-deoxycytidine modified triplex forming oligonucleotide, comprising nucleomonomer analogues of cytosine containing an unsaturated group in the pyrimidine ring. The 5-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological ph conditions. The lipophilic groups can also enhance cell permeation and upteake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal coligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
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/*tag= a
/note= "all C are 5-methyl-2'-deoxycytidine all U are 5-
                                                                                                                                                                                                                                                           Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pyrimidine ring modified triplex forming oligonucleotide ON-36.
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                                                                                                                                                       Gutierrez AJ, Matteucci M, Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 0 A; 5 C; 0 G; 0 T; 10 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                              Example 6; Col 67-68; 104pp; English
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                      91US-00799824.
92US-00935444.
92US-00965941.
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(first entry)
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                                                                                                                                                  Froehler B, Jones RJ,
Wagner R;
                                                                                                         (GILE-) GILEAD SCI INC.
                                                                                                                                                                                                                     WPI; 1997-362920/33.
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modified_base
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                         26-NOV-1991;
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03-DEC-1997
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                                             25-AUG-1992;
23-OCT-1992;
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RESULT 1550 AAT90270/

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The present sequence is a 5-methyl-2'-deoxycytidine modified triplex forming oligonucleotide, comprising nucleomonomer analogues of cytosine containing an unsaturated group in the pyrimidian ring. The 5-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
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                                                                                                                                                                                                          Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pyrimidine ring modified triplex forming oligonucleotide ON-26.
                                                       Matteucci M, Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
atrive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
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11. .12
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/*tag= b
/note= "formacetal linkage"
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'note= "formacetal linkage"
                                                          Gutierrez AJ,
                                                                                                                                                                                                                                                                                                                                  Example 2; Col 53-54; 104pp; English
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/note= "all C
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(first entry)
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/*tag= c
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                                       Froehler B, Jones RJ,
Wagner R;
GILE-) GILEAD SCI INC
                                                                                                                                               WPI; 1997-362920/33.
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Best Local Similarity
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modified_base
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AAT90260/C
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AAC AAT9026
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The present sequence is a 5-methyl-2'-deoxycytidine/5-(1-propynyl)-2'deoxyuridine modified triplex forming oligonuclectide, comprising nucleomonomer analogues of cytosine and uridine containing an unsaturated sproup in the pyrimidine ring. The s-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapoutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
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                                                                                                                                                      Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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                                                                           Matteucci M, Pudlo J;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 0 A; 5 C; 0 G; 6 T; 4 U; 0 Other;
                                                                                                                                                                                                                        Example 15; Col 103-104; 104pp; English.
                                                                              Gutierrez AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
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92US-00935444
92US-00965941
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(first entry)
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/*tag=
                                                                              Froehler B, Jones RJ,
                                              (GILE-) GILEAD SCI INC.
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Best Local Similarity
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modified_base
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25-AUG-1992;
23-OCT-1992;
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25-AUG-1992;
23-OCT-1992;
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03-DEC-1997
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                                                                                             Wagner R;
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                                                                                                Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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/note= "all C are 5-methyl-2'-deoxycytidine all U are
(1-propynyl)-2'-deoxyuridine"
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                                      Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                              0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                                      Gutierrez AJ, Matteucci M,
                                                                                                                                                                                                                                                                                                                                                       Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
                                                                                                                                                  Example 5; Col 65-66; 104pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
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92US-00935444.
92US-00965941.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT90257 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                               1016 AAAAAGAGGGGAG 1029
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Best Local Similarity 85.75
Marches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                        15 AAAAGAGAGAGAG 2
             (GILE-) GILEAD SCI INC. .
                                     Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SCI INC.
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                                                                         WPI; 1997-362920/33
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modified_base
                                    Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAR-2003
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23-OCT-1992;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                  Wagner R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAT90257;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1554
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modification; triplex; duplex; nucleomonomer analogue; unsaturated group; pyrimidine ring; inhibition; gene expression; antisense; therapy; research; diagnosis; probe; primer; ss.
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/*tag= "all C are 5-methyl-2'-deoxycytidine all U are 5-
(2-thienyl)-2'-deoxyuridine"
                                                                                               Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match 0.5%; Score 10.8; DB 1; Length 15; Local Similarity 85.7%; Pred. No. 9e+02; les 12; Conservative 0; Mismatches 2; Indels
      Pudlo
    Matteucci M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matteucci M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 15 BP; 0 A; 5 C; 0 G; 6 T; 4 U; 0 Other;
                                                                                                                                                                                  Example 15; Col 99-100; 104pp; English,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gutierrez AJ,
    Gutierrez AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
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92US-00935444.
92US-00965941.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAT90265 standard; DNA; 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15 AAAAAGAGAGAG 2
    Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GILE-) GILEAD SCI INC.
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                                                           WPI; 1997-362920/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Key
modified_base
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25-AUG-1992;
23-OCT-1992;
    'n
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03-DEC-1997
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Froehler E
Wagner R;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAT90265;
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The present sequence is a 5-methyl-2'-deoxycytidine/5-methyl-2'-0-
allyluridine modified triplex forming oligonucleotide, comprising
uncleodnomer analogues of cytosine and uridine containing an unsaturated
group in the pyrimidine ring. The 5-substituted provides enhanced binding
capacity in the formation of duplexes and triplexes with single and
double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e.
under physiological pH conditions. The lipophilic groups can also enhance
cell permeation and uptake. The oligomer, which also shows enhanced
nuclease resistance, can be used to form duplexes and triplexes as a
normal oligomer, to inhibit gene expression, e.g. by its antisense
configuration, for therapeutic or research purposes, and for diagnosis by
providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-
2003 to correct PF field.)
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                                                                               Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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/note= "all C are 5-methyl-2'-0- allyldeoxycytidine"
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0.5%; Score 10.8; DB 1
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches
                                                                                                                                                                 Example 18; Col 121-122; 104pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
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92US-00935444.
92US-00965941.
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(first entry)
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*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GILE-) GILEAD SCI INC.
                                       WPI: 1997-362920/33.
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modified_base
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03-DEC-1997
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23-OCT-1992;
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  Wagner R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT90272;
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                                                                                                                                                                                             The present sequence is a 5-methyl-2'-deoxycytidine/5-(2-thiemyl)-2'deoxyuridine modified triplex forming oligonucleotide, comprising nucleomnomer analogues of cytosine and utidine containing an unsaturated group in the pyrimidine ring. The 5-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antiense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Modification, triplex, duplex, nucleomonomer analogue, unsaturated group, pyrimidine ring, inhibition, gene expression; antisense, therapy; research, diagnosis, probe, primer; ss.
                                                                             Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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/note= "all C are 5-methyl-2'-deoxycytidine"
|...62
/*tag= b
/note= "all U are 5-methyl-2'-0-allyluridine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matteucci M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 10.8; DB 1
Pred. No. 9e+02;
0; Mismatches
                                                                                                                                                            Example 16; Col 113-114; 104pp; English.
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92US-00935444.
92US-00965941.
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Similarity 85.7%;
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*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (revised)
                                     WPI; 1997-362920/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Key
modified_base
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03-DEC-1997
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Wagner R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT90269;
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Best Local 9
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ઠ Dp ö

Gaps

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DB 1; Length 15; 2; Indels Pudlo J;

Matteucci M,

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Wagner R;
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                                                                                                                                      The present sequence is a 5-methyl-2'-O-allyldeoxycytidine modified cytoplac forming oligonucleotide, comprising nucleomonomer analogues of cytosine containing an unsaturated group in the pyrimidine ring. The 5-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological physiologicals. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)
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                 Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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/note= "all C are 5-methyl-2'-deoxycytidine all U .
(1-propynyl)-2'-deoxyuridine"
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/*tag= b
/note= "3'-thioformacetal linkage"
13. 14
/*tag= c
/note= "3'-thioformacetal linkage"
                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                  Example 18; Col 127-128; 104pp; English
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92US-00935444.
92US-00965941.
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(first entry)
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Best Local Similarity 85.7%
---Ahes 12; Conservative
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modified_base
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03-DEC-1997
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23-OCT-1992;
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/note= "all C are 5-methyl-2'-deoxycytidine all U are 5-
                                                      Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
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                                                                                                                                                                   Example 15; Col 99-100; 104pp; English.
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92US-00965941.
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(first entry)
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Best Local Similarity
Matches 12; Conserva
WPI; 1997-362920/33.
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modified_base
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25-AUG-1992;
23-OCT-1992;
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Wagner R;
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03-DEC-1997
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AAT90261/c
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WPI; 1997-362920/33
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The present sequence is a 5-methyl-2'-deoxycytidine/5-(2-pyridinyl)-2'deoxyuridine modified triplex forming oligonuclectide, comprising nucleomonomer analogues of cytosine and uridine containing an unsaturated group in the pyrimidine ring. The 5-substituent provides enhanced binding capacity in the primidine of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. under physiological pH conditions. The lipophilic groups can also enhance cell permeation and uptake. The oligomer, which also shows enhanced nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapeutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.) Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay. Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other; Example 16; Col 105-106; 104pp; English.

0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 7ative 0; Mismatches 2; Indels 1016 AAAAAGAGGGGAG 1029 Best_Local Similarity 85.7 Matches 12; Conservative Query Match ò

AAAAAGAGAGAGA 2

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Pyrimidine ring modified triplex forming oligonucleotide ON-37. BP. AAT90271 standard; DNA; 15 (first entry) (revised) 25-MAR-2003 03-DEC-1997 AAT90271; RESULT 1560

Modification, triplex, duplex; nucleomonomer analogue; unsaturated pyrimidine ring; inhibition; gene expression; antisense; therapy; research; diagnosis; probe; primer; ss. Synthetic

group;

/*tag= a /note= "all C are 5-methyl-2'.deoxycytidine all U are (1-propynyl)-2'-0- allyldeoxyuridine" Location/Qualifiers 91US-00799824 92US-00976103 92US-00935444 92US-00965941 . .15 *tag= Key modified_base 25-NOV-1992; 26-NOV-1991; 25-AUG-1992; 23-OCT-1992; US5645985-A 08-JUL-1997

Gutierrez AJ, Jones RJ, GILE-) GILEAD Froehler B,

WPI; 1997-362920/33

Wagner R;

Pudlo J;

Matteucci M,

Nucleo:monomers containing unsaturated pyrimidine base analogues - form oligomer duplexes or triplexes with nucleic acid under physiological conditions, and used in gene expression inhibition, diagnosis and assay.

Example 18; Col 125-126; 104pp; English.

The present sequence is a 5-methyl-2'-deoxycytidine/5-(1-propynyl)-2'-0-allyldeoxyuridine modified triplex forming oligonucleotide, comprising mucleomnomer analogues of cytosine and uridine containing an unsaturated group in the pyrimidine ring. The 5-substituent provides enhanced binding capacity in the formation of duplexes and triplexes with single and double stranded RNA and DNA. Triplexes can be formed at pH 7.0, i.e. can be stranded RNA and DNA. Triplexes can be formed at pB 3.0, i.e. call permeation and uptake. The oligomer, which also shows enhance nuclease resistance, can be used to form duplexes and triplexes as a normal oligomer, to inhibit gene expression, e.g. by its antisense configuration, for therapoutic or research purposes, and for diagnosis by providing probes or primers for specific RNA or DNA. (Updated on 25-MAR-2003 to correct PF field.)

Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;

Gaps . 0 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels Local Similarity 85.7 ses 12; Conservative Query Match Matches

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Gaps

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Human flt-1 and KDR hammerhead ribozyme target site #60. AAX75726 standard; RNA; 15 BP. (first entry) 28-JUL-1999 AAX75726; RESULT 1561

Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor; fms-like tyrosine k: foetal liver kinase

96WO-US017480. WO9715662-A2 25-OCT-1996; Homo sapiens 01-MAY-1997.

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95US-0005974P. 96US-00584040. (RIBO-) RIBOZYME PHARM INC. (CHIR) CHIRON CORP. 26-OCT-1995; 11-JAN-1996;

Escobedo J; Stinchcomb D, Mcswiggen J, Pavco P,

WPI; 1997-259017/23.

Nucleic acid molecule modulating VEGF receptor(s) gene expression or stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient.

Example 9; Page 191; 218pp; English.

The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more

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receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or focetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) car be treated by administering the nucleic acid molecule or the expression vector to the patient. AAXO775 to AAX7572 represent specific examples of nucleic acid molecules from the present invention
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Sequence 15 BP; 6 A; 2 C; 6 G; 0 T; 1 U; 0 Other;

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                                Gaps
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0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ative 0; Mismatches 2; Indels
                                                             1164 CTGTCCCAACTTTG 1177
                                                                                 15 CTCTCCGACTTG 2
   Query Match 0.59
Best Local Similarity 85.79
Matches 12; Conservative
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AAX36646 standard; RNA; 15 (first entry) 13-JUL-1999 AAX36646; RESULT 1562 AAX36646

BP.

Antisense oligomer SEQ ID NO. 49.

Antisense oligonucleotide, gene expression inhibitor; diagnosis; oligonucleotide-based therapy; ss.

Synthetic.

US5830653-A

03-NOV-1998

95US-00473481. 07-JUN-1995;

91US-00799824. 92US-00935444. 92US-00965941. 92US-00976103. 26-NOV-1991; 25-AUG-1992; 23-OCT-1992; 25-NOV-1992;

(GILE-) GILEAD SCI INC.

Froehler B, Gutierrez AJ, Jones RJ, Matteucci M, Pudlo Wagner R;

WPI; 1998-609233/51.

Screening of anti-sense oligo:nucleotide(s) for ability to inhibit gene expression - comprises micro-injecting varying amounts of the anti-sense oligomer into a host cell and measuring expression of the target and control genes.

Example 18; Col 52; 104pp; English.

This sequence represents an antisense oligonucleotide used to test the method of the invention. The method of the invention is for evaluation of an antisense oligomer for its ability to inhibit gene expression, and comprises: microinjecting varying amounts of the antisense oligomer into a host cell along with a target vector for the expression of a gene containing a target sequence for the antisense oligomer and a control containing a target sequence for the antisense oligomer and a control protein and does not contain the target sequence; and measuring expression of the target gene and the control gene. Increasing inhibition of the target gene expression, but not of the control gene expression, as the amount of antisense oligomer to inhibit gene expression. The method is used in oligonucleotide-based therapy and diagnosis. The oligomers have enhanced

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affinity for complementary target nucleic acid sequences and improved binding affinity for double-stranded and/or single-stranded target sequences
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                                                                                                              Query Match
0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches 2; Indels
                                                                           Sequence 15 BP; 10 A; 0 C; 5 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                              1016 AAAAGAGGGGGAG 1029
                                                                                                                                                                                                                               1 AAAAAGAGAGAGAG 14
                                                                                                                                                                                                                                                                                            RESULT 1563
AAX36643/c
      ន្តដូន្ធន
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Antisense oligomer SEQ ID NO. 40. BP. .643/c AAX36643 standard; DNA; 15 (first entry) 13-JUL-1999 Synthetic.

Antisense oligonucleotide, gene expression inhibitor, diagnosis; oligonucleotide-based therapy; ss.

U95830653-A. 03-NOV-1998

91US-00799824. 92US-00935444. 92US-00965941. 92US-00976103. 95US-00473481. 26-NOV-1991; 25-AUG-1992; 23-OCT-1992; 25-NOV-1992; 07-JUN-1995;

Gutierrez AJ, Jones RJ, Matteucci M, (GILE-) GILEAD SCI INC. Froehler B, Wagner R;

ب ..

Pudlo

WPI; 1998-609233/51.

Screening of anti-sense oligo:nucleotide(s) for ability to inhibit gene expression - comprises micro-injecting varying amounts of the anti-sense oligomer into a host cell and measuring expression of the target and control genes.

Example 17; Col 51; 104pp; English.

This sequence represents an antisense oligomucleotide used to test the method of the invention. The method of the invention is for evaluation of method of the invention. The method of the invention is for evaluation of an antisense oligomer for its ability to inhibit gene expression, and comprises: microhijecting varying amounts of the antisense oligomer into a host cell along with a target vector for the expression of a gene containing a target sequence for the antisense oligomer into vector for the expression of a control contain and does not contain the target sequence; and measuring trocten and does not contain the target sequence; and measuring of the target gene expression, but not of the control gene expression, of the amount of antisense oligomer increases indicates the ability of the antisense oligomer increases indicates the ability of the contained contained therapy and diagnosis. The oligomers have enhanced affinity for complementary target uncleic acid sequences and improved the binding affinity for double-stranded and/or single-stranded target.

G; 10 T; 0 U; 0 Other; Sequence 15 BP; 0 A; 5 C; 0

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Gaps
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0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                12; Conservative
    Query Match
Best Local
                               Matches
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AAX36634 standard; RNA; 15 (first entry) 13-JUL-1999 AAX36634; RESULT 1564 AAX36634 8X556666666666668X8X8FFFFFX8XFFFFFX8XFFFFFX8X8X88X8X8X8X8X8X8

Antisense oligomer SEQ ID NO. 12.

Antisense oligonucleotide; gene expression inhibitor; diagnosis; oligonucleotide-based therapy; ss.

Synthetic.

03-NOV-1998

95US-00473481. 07-JUN-1995; 91US-00799824. 92US-00935444. 92US-00965941. 92US-00976103. 25-AUG-1992; 23-OCT-1992; 25-NOV-1992; 26-NOV-1991;

(GILE-) GILEAD

Pudlo J; Jones RJ, Matteucci M, Froehler B, Gutierrez AJ, Wagner R;

WPI; 1998-609233/51.

Screening of anti-sense oligo:mucleotide(s) for ability to inhibit gene expression - comprises micro-injecting varying amounts of the anti-sense oligomer into a host cell and measuring expression of the target and control genes.

Example 6; Col 40; 104pp; English.

This sequence represents an antisense oligonucleotide used to test the method of the invention is for evaluation of an antisense oligomer for its ability to inhibit gene expression, and comprises: microinjecting varying amounts of the antisense chigomer into a host cell along with a target vector for the expression of a gene containing a target sequence for the antisense oligomer into a vector for the expression of a control gene that encodes a detectable protein and does not contain the target sequence; and measuring expression of the target gene and the control gene. Increasing inhibition of the target gene and the control gene expression, as the amount of antisense oligomer increases indicates the ability of the antisense oligomer to inhibit gene expression. The method is used in oligomer to inhibit gene expression. The method is used in oligomer the inhibit gene expression, as attinity for complementary target nucleic acid sequences and improved affinity for double-stranded and/or single-stranded target sednences

Sequence 15 BP; 10 A; 0 C; 5 G; 0 T; 0 U; 0 Other;

Gaps . 0 Query Match
0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches 2; Indels

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AAV40439 standard; DNA; 15 BP.

AAV40439;

28-SEP-1998 (first entry)

TRACER antisense oligonucleotide.

Antisense oligonuclectide, down regulate, erbB-2, oncogene, tyrosine kinase, breast cancer, radioisotope, hybridisation, probe, US-1, US-3; US-4; US-5, UT-1; US-D, SC-3; TRACER, ss.

Synthetic. Homo sapiens.

WO9820168-A1.

14-MAY-1998.

97WO-US020910. 03-NOV-1997;

96US-00740821.

04 - NOV-1996;

(UYDU-) UNIV DUKE.

Inglebart JD; Marks JR, Vaughn JP,

WPI; 1998-286977/25.

Antisense oligonucleotides that down regulate the erbB-2 oncogene -useful to inhibit ERBB2 tyrosine kinase receptor expression in cancer cells to treat epithelial cell, breast, ovarian, lung or colon cancer.

Example 6; Page 15; 31pp; English.

The antisense oligonucleotides AAV40432-V40439 were used to down regulate the erbb-2 oncogene. This oncogene codes for a 185kD tyrosine kinase the erbb-2 oncogene. This oncogene codes for a 185kD tyrosine kinase conversopressed. The oligonucleotides are able to inhibit the overexpressed the oligonucleotides are able to inhibit the conversion of ERBB2 tyrosine kinase receptor in a cell, which can be overexpression of ERBB2 tyrosine kinase receptor in a cell, which can be overexpression of ERBB2 tyrosine kinase receptor in a cell, which can be conversed as hybridisation probes to detect the ERBB2 gene. The coligonucleotides with, for example, a radioisotope, they can also be used as hybridisation probes to detect the ERBB2 gene. The coligonucleotides were designated the following names, followed by the coligonucleotides when they target: USS-1 (165-180); US-1 (174); US-4 (173-187); US-5 (178-192); UT-1 (151-165); US-1 (US-1 (174); US-4 (173-187); US-5 (178-192); UT-1 (151-165); US-1 (US-1 (US-1 (151-165); US-1 (US-1 (US-

Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;

ö Similarity 85.7%; Pred. No. 9e+02; 12. Conservative 0; Mismatches 2; Indels Local Similarity ... Query Match Best Loca Matches

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Gaps

1016 AAAAAGAGGGGAG 1029

15 AAAAAGAGAGAGAG 2

g Š

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schultz451-1.rng

Ξ Fukui

Synthetic. Homo sapiens.

EP843019-A2. 20-MAY-1998.

11-SEP-1998

AAV37811;

RESULT 1566

07-NOV-1997; 08-NOV-1996;

DNA

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single-stranded DNA fragment having a specific nucleic acid sequence in a sample. The method comprises stringently hybridizing a carrier-bonded DNA probe that comprises a single-stranded DNA probe having a carrier-bonded DNA probe that comprises a single-stranded DNA probe having a nucleic acid sequence complementary to the specific nucleic acid sequence of the single-stranded DNA fragment to be detected or quantitatively determined in the sample and a carrier comprising a substance with a very low absorbance for DNA, as bonded together via or without a spacer between them, with DNA fragments in the sample. followed by detecting or carrier-bonded DNA probe. Probes from the present invention are used for detecting point mutations associated with diseases such as cancer. The method is simple and allows very early quantitative diagnoses. The present sequence represents a DNA chain having a K-ras mutant sequence, used in an example from the present invention
            Detection; determination; quantitation; carrier bonded DNA probe;
hybridisation; K-ras; p53; human hepatitis C virus; leukocyte antigen;
mytant; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Probe; hybridisation; target sequence; TS; peptide nucleic acid; PNA; nonspecific binding; signal to noise ratio; assay; point mutation discrimination; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                              Kawaguchi H, Fujimoto K, Iwato S, Handa H, Kubota A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Use of probe bonded to carrier with low DNA adsorbance - hybridisation assays for early diagnosis of cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Wild-type probe used in the method of the invention.
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AAV33235
ID AAV33235 standard; DNA; 15
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(first entry)
                                                                                                                                                                                                                                                                                                                                                                       (KYOW ) KYOWA MEDEX CO LTD
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modified_base
                                                                                                               Synthetic.
Homo sapiens.
                                                                                                                                                                                                                                                                              07-NOV-1997;
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18-NOV-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         single-stranded DNA fragment having a specific nucleic acid sequence in a single-stranded DNA fragment having a specific nucleic acid sequence in a sample. The method comprises stringently hybridizing a carrier-bonded DNA probe that comprises a single-stranded DNA probe having a nucleic acid sequence complementary to the specific nucleic acid sequence of the single-stranded DNA fragment to be detected or quantitatively determined in the sample and a carrier comprising a substance with a very low absorbance for DNA, as bonded together via or without a spacer between them, with DNA fragments in the sample, followed by detecting or them, with DNA fragments in the sample, followed by detecting or quantitatively determining the DNA fragment as hybridised with the carrier-bonded DNA probe. Probes from the present invention are used for detecting point mutations associated with diseases such as cancer. The method is simple and allows very early quantitative diagnoses. The present sequence represents a DNA chain having a K-ras mutant sequence, used in an example from the present invention
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                                                                                                                                                                                                                                                     Detection; determination; quantitation; carrier bonded DNA probe;
hybridisation; K-ras; p53; human hepatitis C virus; leukocyte antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Use of probe bonded to carrier with low DNA adsorbance - in DNA hybridisation assays for early diagnosis of cancer.
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                                                                                                                                                                                                        K-ras mutant DNA chain SEQ ID NO:26 from EP-843019 Example 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kubota A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 1 A; 2 C; 8 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Handa H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fujimoto K, Iwato S,
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В
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ID AAV37811 standard; DNA; 15 BP

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DT 11-SEP-1998 (first entry)

DE K-ras mutant DNA chain SEQ ID
                                                                  AAV37811 standard; DNA; 15 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (KYOW ) KYOWA MEDEX CO LTD
                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1998-263293/24
                                                                                                                                                                                                                                                                                                         mutant; cancer; ss.
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Gaps

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RESULT

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/*tag= b
/note= "amide group attached to the 3' end when used as a wild-type PNA labelled probe or as wild-type PNA blocker probe; if left unmodified the probe is used as a wild-type DNA labelled probe or as a wild-type DNA blocker probe" /*tag= a //*tag= Assays for target nucleic acid sequences - using a detectable probe and probes for suppressing the binding to a non-target sequence which may be Hyldignielsen JJ, Godtfredsen SE, Fiandaca MJ; Example 6; Page 39; 84pp; English. 96US-0032349P. 97US-00937709. 97US-00963472. 97WO-US021845 PROBES INC present in a sample. WPI; 1998-333348/29 BOSTON PI DAKO AS. modified base WO9824933-A1 01-DEC-1997; 04-DEC-1996; 33-NOV-1997; 11-JUN-1998 ξ (BOST-) 1 (DAKO-) 1 Stefano

Probes for target muchaic actu sequences - using a detectable probe and probes for suppressing the binding to a non-target sequence which may be probes for suppressing the binding to a non-target sequence which may be the invention provides a method for suppressing the binding of a carget sequence (TS). The method involves (a) contacting the sample for a target sequence (TS). The method involves (a) contacting the sample with a set containing two or more probes under conditions suitable for the probes wild-type probe labelled with a detectable moiety and having a sequence complementary to the TS, and at least one of the other probes is a detectable wild-type probe labelled with a detectable moiety and having a sequence complementary to a non-TS which may be resent in the sample. The method also specifies that atleast one of the probe and the unlabelled probe should be a peptide mucleic acid (PNA) probe. (b) The next stop involves detecting the presence or amount of TS present in the sample by directly or indirectly quantitating the categories by a single base (the wild-type probe which hybridised to the TS. In the example given, two DNA target oligonucleotides which differed in the example given, two DNA target oligonucleotides which differed in the example given, two DNA target oligonucleotides which differed in the example given, two DNA target oligonucleotides which drawnant to DNA (AAV33234)) were detected in experimental assays using labelled PNA (V33222) which were complementary to one of the two target sequences. (see AAV33226 and AAV33242). The results showed the sample the adjust of a labelled probe directly the assay theresty improves such as the present sequence, (see AAV33236 and AAV33242). The results showed target DNA by using the horspecific binding of a labelled probe directly in mprovements in reliability since the incidence of false maganity would also be reduced. Using that several loss of improvement can be achieved in point to staimed that several loss of improvement can be achieved in poin

Sequence 15 BP; 4 A; 8 C; 2 G; 1 T; 0 U; 0 Other;

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/note= "amide group attached to the 3' end when used as a
wild-type PNA labelled probe or as wild-type PNA blocker
probe; if left unmodified the probe is used as a wild-
type DNA labelled probe or as a wild-type DNA blocker
probe"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention provides a method for suppressing the binding of a detectable probe to a non-target sequence in an assay of a sample for a target sequence (TS). The method involves (a) contacting the sample with a set containing two or more probes under conditions suitable for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Assays for target nucleic acid sequences - using a detectable probe and probes for suppressing the binding to a non-target sequence which may be present in a sample.
                                                                                                                                                                                                                                                                                                                                                                                                       /*tag= a attached the Sypedite PNA linker)2-lys- group attached at the 5' end when used as a wild-type PNA attached probe; fluorescein- Fluorodite (RTM) labelling phosphoramidite- group attached at 5' end when used as wild-type DNA labelled probe; if left unmodified the probe is used as a wild-type PNA blocker probe or as a wild-type DNA blocker probe.
                                                                                                                                                                                                                                                                                     Probe; hybridisation; target sequence; TS; peptide nucleic acid; PNA; nonspecific binding; signal to noise ratio; assay; point mutation discrimination; ss.
                             Gaps
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 Length 15;
                             2; Indels
                                                                                                                                                                                                                                                            Wild-type probe used in the method of the invention
Score 10.8; DB 1;
Pred. No. 9e+02;
); Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
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97US-00937709.
97US-00963472.
                                                                                                                                                           AAV33235 standard; DNA; 15 BP.
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                                                        1134 CACCTCCAGCTCCA 1147
                                                                                    2 deceadedactica 15
                                                                                                                                                                                                                                  (first entry)
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DAKO-) DAKO AS.
 Query, Match
Best Local Similarity 85.7
Matches 12; Conservative
                                                                                                                                                                                                                      (revised)
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03-NOV-1997;
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18-NOV-1998
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Stefano K,
                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                       AAV33235;
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cc probes to hybridise to nucleic acid, where, at least one of the probes is a detectable wild-type probe labelled with a detectable moiety and having a sequence complementary to the TS, and at least one of the criber probes (also known as a blocker probe) is an unlabelled or independently which may be present in the sample. The method also specifies that atleast one of the labelled probe and the unlabelled probe should be a peptide nucleic acid (PNA) probe. (b) The next step involves detecting the presence or amount of TS present in the sample by directly or indirectly quantitating the certable moiety of the detectable probe which hybridised to the TS. In the example given, two DNA target oligonucleotides which differed in the example given, two DNA target oligonucleotides which differed in the example given, two DNA target oligonucleotides which alternate the TS. In the example given, two DNA target oligonucleotides which alternate the TS. In the example given, two DNA target oligonucleotides which the mutant to DNA (AAV33234) which were detected in experimental assays using labelled PNA and DNA probes, such as the present sequence, (see AAV33235 and AAV3324).

CC Sequence by a single base (the wild-type DNA (AAV33233) and the mutant of the addition of unlabelled blocker probes, such as the present sequence, (see AAV33236 and AAV3324).

CC Septements were performed to examine, compare and quantitate the effects associated with the addition of unlabelled blocker probes, such as the correct DNA by using the blocker probes. The invention claims the teaction improves the sensitivity of the assay thereby improving the signal to improve the sensitivity of the assay thereby improving the signal to improve the sensitivity of the assay thereby improving the signal to create the incidence of false positives and false negative would also be reduced. Using this method, it is claimed that several logs of improvement can be achieved in point of mutation discrimination. (Updated on 25-MAR-2003 to ocrrect PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pyrimidinone derivative; labeled binding partner; diagnostic assay; antisense; transfection complex; primer; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Composition comprising pyrimidinone derivatives for diagnostic and analytical labels.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .;
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0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches 2; Indels
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Example 4; Page 88; 101pp; English.

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The specification describes pyrimidinone derivatives. These derivatives are used as labeled binding partners, particularly as labels for diagnostic, analytical and therapeutic applications. The derivatives used as detectable labels for diagnostic assays, to enhance diagnostic assays that use oligonucleotides and to improve potency of also assays that use oligonucleotides and to improve potency of altering intracellular metabolism of complementary RNA sequences encoding at arget gene. They are also used in transfection complexes to deliver oligonucleotides into cell cyroplasm and in PCR e.g. as primers, and ligase chain reaction (LCR) e.g. as probes. The derivatives have increased affinity and specificity for their complementary sequences and facilitate PCR and LCR processes. The present sequence represents a target for pyrimidinone derivatives of the invention
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RESULT 1572 AAX31560 ID AAX3

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differentially expresent tag sequences of transcripts that are differentially expressed in colorectal cancer, in pancreatic cancer, or in both. The tag sequences can be used to identify genes by matching the tag to a gen data base member, or by using the tag sequences as probes to isolate unidentified genes from cDNA libraries. The tag sequences can also be used in a method for diagnosing colon or pancreatic cancer in a sample suspected of being neoplastic. The method comparises comparing the level of at least one transcript in a first sample of a tissue to a second sample, where the first sample is a colonic tissue suspected of being neoplastic and the second sample is a normal human colonic tissue. The transcript is identified by a tag selected from AAX30947-11815. The methods of the invention can be used in the diagnosis, prognosis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Use of isolated gene transcripts - useful for developing products for diagnosis, prognosis and treatment of cancers, particularly colon and pancreatic cancer.
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                                                                                                                                                                        of a transcript increased in colorectal cancer
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                                       AAX31073 standard; DNA; 15 BP.
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Best Local Similarity 85.7
Matches 12; Conservative
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                                                                                                                                                                        Tag sequence
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85.7%; Pred. No. 9e+02;
ive 0; Mismatches 2; Indels
                                                                               Score 10.8; DB 1; Length 15;
Pred. No. 9e+02;
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                                       Sequence 15 BP; 2 A; 8 C; 3 G; 2 T; 0 U; 0 Other;
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Best Local Similarity 85.7%;
Matches 12; Conservative
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AAX30947-31815 represent tag sequences of transcripts that are differentially expressed in colorectal cancer, in pancreatic cancer, or in both. The tag sequences can be used to identify genes by matching the tag to a gen data base member, or by using the tag sequences as probes to
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         WPI; 1999-070161/06.
                                                                                                                                                                                                                                                                             Query Match
Best'Local Similarity
Worches 12; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO9853319-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26-NOV-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                     AAX31025;
                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1576
                                                                                                                                                                                                                                                                                                                                                                                                       AAX31025/
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                                                                                                                                                                                                                                                AAX30947-31815 represent tag sequences of transcripts that are differentially expressed in colorectal cancer, in pancreatic cancer, or hotor. The tag sequences can be used to identify genes by matching the tag to a gen data base member, or by using the tag sequences as probes to isolate unidentified genes from cDNA libraries. The tag sequences can also be used in a method for diagnosing colon or pancreatic cancer in a sample suspected of being neoplastic. The method comprises comparing the level of at least one transcript in a first sample of a tissue to a second sample, where the first sample is a colonic tissue suspected of being neoplastic and the second sample is a normal human colonic tissue. The transcript is identified by a tag selected from AAX30947-31815. The methods of the invention can be used in the diagnosis, prognosis and
                                                                                                                                                                           Use of isolated gene transcripts - useful for developing products for the diagnosis, prognosis and treatment of cancers, particularly colon and pancreatic cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tag sequence, colorectal cancer, pancreatic cancer, colon cancer, diagnosis, prognosis, treatment, ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tag sequence of a transcript increased in colorectal cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                    0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; cive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 7 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                            Disclosure; Page 79; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX31169 standard; DNA; 15 BP.
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                                                                                         97US-0047352P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1035 AGGAACTACTACTA 1048
                                                                  98WO-US010277
                                                                                                            (UYJO ) UNIV JOHNS HOPKINS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGAACTAATACTA 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kinzler KW;
                                                                                                                                     Vogelstein B, Kinzler KW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               12; Conservative
                                                                                                                                                          WPI; 1999-070161/06.
                                                                                                                                                                                                                                                                                                                                                                                            treatment of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vogelstein B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-MAY-1998;
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                                                                                         21-MAY-1997;
Homo sapiens
                      WO9853319-A2
                                                                  20-MAY-1998;
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                                            26-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAX31169;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 1575
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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Use of isolated gene transcripts - useful for developing products for the diagnosis, prognosis and treatment of cancers, particularly colon and pancreatic cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tag sequence, colorectal cancer, pancreatic cancer, colon cancer, diagnosis, prognosis, treatment, ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 10.8; DB 1; Length 15; llarity 85.7%; Pred. No. 9e+02; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 7 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                     Claim 2; Page 33; 120pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP.
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AAX31025 standard; DNA; 15
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Gaps

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Indels

7

85.7%; Pred. No. 9e+02; tive 0; Mismatches

Best Local Similarity 85.7 Matches 12; Conservative

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isolate unidentified genes from cDNA libraries. The tag sequences can also be used in a method for diagnosing colon or pancreatic cancer in a sample suspected of being neoplastic. The method comprises comparing the level of at least one transcribt in a first sample of a tissue to a second sample, where the first sample is a colonic tissue suspected of being neoplastic and the second sample is a normal human colonic tissue. The transcript is identified by a tag selected from AAX30947-31815. The methods of the invention can be used in the diagnosis, prognosis and treatment of cancer.
                   88898888888888888
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Sequence 15 BP; 1 A; 2 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels 1060 CCAAACCCAAGCTT 1073

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Gaps

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15 CAAAACCCAAGCAT 2

Tag sequence of a transcript decreased in colorectal cancer. AAX31491 standard; DNA; 15 BP. (first entry) 21-MAY-1999 AAX31491; 1577 RESULT

Tag sequence; colorectal cancer; pancreatic cancer; colon cancer; diagnosis; prognosis; treatment; ss.

Homo sapiens

WO9853319-A2

26-NOV-1998.

98WO-US010277 20-MAY-1998; 97US-0047352P. 21-MAY-1997;

(UYJO) UNIV JOHNS HOPKINS.

Vogelstein B, Kinzler KW;

WPI; 1999-070161/06.

Use of isolated gene transcripts - useful for developing products for diagnosis, prognosis and treatment of cancers, particularly colon and pancreatic cancer.

Claim 1; Page 53; 120pp; English.

differentially expresent tag sequences of transcripts that are differentially expressed in colorectal cancer, in pancreatic cancer, or in both. The tag sequences can be used to identify genes by matching the tag to a gen data base member, or by using the tag sequences as probes to isolate unidentified genes from cDNA libraries. The tag sequences can also be used in a method for diagnosing colon or pancreatic cancer in a sample suspected of being neoplastic. The method comparises comparing the level of at least one transcript in a first sample of a tissue to a being neoplastic and the second sample is a colonic tissue suspected of being neoplastic and the second sample is a normal human colonic tissue. The transcript is identified by a tag selected from hax30947-1815. The methods of the invention can be used in the diagnosis, prognosis and treatment

Seguence 15 BP; 4 A; 8 C; 2 G; 1 T; 0 U; 0 Other;

0.5%; Score 10.8; DB 1; Length 15;

Query Match

0.5%; Score 10.8; DB 1; Length 85.7%; Pred. No. 9e+02;

Query Match Best Local Similarity

Sequence 15 BP; 4 A; 8 C; 2 G; 1 T; 0 U; 0 Other;

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This sequence represents a peptide nucleic acid that can be used in the composition of the invention. The composition comprises at least 1 composition of the invention. The composition comprises at least 1 composition of the invention. The composition can be used at least 1 component (D) and acceptor (A) groups where at least 1 of the component polymers is a non-nucleic acid polymer. The compositions are particularly used to detect, identify or quantify nucleic acids that are present (or produced) in a closed tube assay, e.g. the product of an preferred applications are detecting viruses and other microorganisms of e.g. in foods, waters, pharmaceuticals, etc., including biological warfare agents); to determine effects of antimicrobial agents; for diagnosis of disease (e.g. genetic disorders such as cancer, thalassemia, cystic fibrosis etc.); for analysis/manipulation of plants and their genes, and in screening for potential drugs or factors that indicate succeptibility to drug interactions. Many different targets can be detected in a single reaction, using a common (AP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Complex of probing and annealing polymers, labeled with donor and acceptor molecules, useful for detecting, identifying or quantifying target nucleic acids.
                                                                                                                                                                                                                                               Peptide nucleic acid; probing polymer; annealing polymer; detection; identification; virus detection; microorganism; antimicrobial agent; disease; genetic disorder; cancer; thalassemia; cystic fibrosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag= b
/note= "A-lysine(5(6)carboxyfluorescein)-NH2"
                                                                                                                                                                                                                                                                                                                                                                                             /*tag= a
/note= "Cy3-8-amino-3,6-dioxaoctanoic acid-A"
15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gildea BD, Hyldig-Nielsen JJ;
                                                                                                                                                                                                                    Peptide nucleic acid probe number 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 12; Page 51; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                    AAZ27396 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US006422.
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1053 CCTGGCCCCAAACC 1066
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                                                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                             modified base
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                                                                                                                                                                                       07-DEC-1999
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                                                                                                                                                                                                                                                                                                                           Synthetic.
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                                                                                                                                                  AAZ27396;
                                                                                   RESULT 1578
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                                                                                                     AAZ27396
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Peptide nucleic acid probe number 1.

(first entry)

07-DEC-1999

AAZ27387;

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AAZ27387 standard; DNA; 15

RESULT 1580

302 TGGAGCTGTTGGTG 315

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C3

15 TGGAGCTGGTGGCG

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This sequence represents a peptide nucleic acid that can be used in the composition of the invention. The composition comprises at least 1 probling polywer (PP), at least 1 annealing polywer (PP), at least 1 annealing polywer (PP) and acceptor (A) groups where at least 1 of the component polymers is a non-nucleic acid polymer. The compositions are particularly used to detect, identify or quantify nucleic acids that are present (or produced) in a closed tube assay, e.g. the product of an amplification reaction, or present in (living) cells or tissue. Some preferred applications are detecting viruses and other microorganisms (e.g. in foods, water, pharmaceuticals, etc., including biological warfare agents); to determine effects of antimicrobial agents; for diagnosis of disease (e.g. genetic disorders such as cancer, thalassemia, cystic fibrosis etc.); for analysis/manipulation of plants and their susceptibility to drug interactions. Many different targets can be detected in a single reaction, using a common (AP)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Complex of probing and annealing polymers, labeled with donor and acceptor molecules, useful for detecting, identifying or quantifying target nucleic acids.
Gaps
                                                                                                                                                                                                                                                                                             Peptide nucleic acid; probing polymer; annealing polymer; detection; identification; virus detection; microorganism; antimicrobial agent; disease; genetic disorder; cancer; thalassemia; cystic fibrosis; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= b
/note= "A-lysine(5(6)carboxyfluorescein)-NH2"
                                                                                                                                                                                                                                                                                                                                                                                                                                             /*tag= a
/note= "Cy3-8-amino-3,6-dioxaoctanoic acid-A"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
Indels
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Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gildea BD, Hyldig-Nielsen JJ;
                                                                                                                                                                                                                                                               Peptide nucleic acid probe number 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 12; Page 51; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
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0
                                                                                                                                                        AAZ27396 standard; DNA; 15 BP.
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                                 1134 CACCTCCAGCTCCA 1147
                                                                   2 ceccaccaecreca 15
                                                                                                                                                                                                                               07-DEC-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BOST-) BOSTON PROBES INC.
12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                            *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-580488/49
                                                                                                                                                                                                                                                                                                                                                                                                        Key
modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                           AAZ27396;
                                                                                                                        RESULT 1579
Matches
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This sequence represents a peptide nucleic acid that can be used in the composition of the invention. The composition comprises at least 1

probing polymer (PP), at least 1 annealing polymer (AP) and at least 1

set of donor (D) and acceptor (A) groups where at least 1 of the component polymers is a non-nucleic acid polymer. The compositions are particularly used to detect, identify or quantify nucleic acids that are present (or produced) in a closed tube assay, e.g. the product of an present (or produced) in a closed tube assay, e.g. the product of an preferred applications are detecting viruses and other microorganisms (e.g. in foods, water, pharmaceuticals, etc., including biological warfare agents); to determine effects of antimicrobial agents; for diagnosis of disease (e.g. genetic disorders such as cancer, thalassemia, cystic fibrosis etc.); for analysis/manipulation of plants and their cystic fibrosis etc.); for analysis/manipulation of plants and their custofillity to drug interactions. Many different targets can be detected in a single reaction, using a common (AP)
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                                                                                                                                                                                                                                                     /*tag= a
/note= "5(6)-carboxyfluorescein-8-amino-3,6-dioxaoctaonic
acid modified"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Complex of probing and annealing polymers, labeled with donor and acceptor molecules, useful for detecting, identifying or quantifying target nucleic acids.
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                                                                                                  Peptide nucleic acid; probing polymer; annealing polymer; detection; identification; virus detection; microorganism; antimicrobial agent; disease; genetic disorder; cancer; thalassemia; cystic fibrosis; ss.
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0.5%; Score 10.8; DB 1; Length 15;

Best Local Similarity 85.7%; Pred. No. 9e+02;

Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15 BP; 4 A; 8 C; 2 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hyldig-Nielsen JJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 12; Page 51; 122pp; English.
                                                                                                                                                                                                                  Location/Qualifiers
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/note= "amidated"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98US-0079211P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (BOST-) BOSTON PROBES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gildea BD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1999-580488/49.
                                                                                                                                                                                                                    Key
modified_base
                                                                                                                                                                                                                                                                                                         modified base
                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                  WO9949293-A2
                                                                                                                                                                                                                                                                                                                                                                                                                   30-SEP-1999
                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Coull JD,
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Gaps

0

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This sequence represents a peptide nucleic acid that can be used in the composition of the invention. The composition comprises at least 1 problems (PP), at least 1 annealing polymer (PP), at least 1 annealing polymer (PP), at least 1 annealing polymer (PP) and at least 1 set of donor (D) and acceptor (A) groups where at least 1 of the component polymer is a non-nucleic acid polymer. The compositions are particularly used to detect, identify or quantify nucleic acids that are present (or produced) in a closed tube assay, e.g. the product of an amplification reaction, or present in (living) cells or tissue. Some preferred applications are detecting viruses and other microorganisms (e.g. in foods, water, pharmaceuticals, etc., including biological warfare agents); to determine effects of antimicrobial agents; for diagnosis of disease (e.g. genetic disorders such as cancer, thalassemia, cystic fibrosis etc.); for analysis/manipulation of plants and their cystic fibrosis etc.); for analysis/manipulation of plants and their susceptibility to drug interactions. Many different targets can be cheected in a single reaction, using a common (AP)
                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= a
/note= "5(6)-carboxyfluorescein-8-amino-3,6-dioxaoctaonic
acid modified"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Complex of probing and annealing polymers, labeled with donor and acceptor molecules, useful for detecting, identifying or quantifying target nucleic acids.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hyldig-Nielsen JJ;
                                                                                                                                                                                                                                Peptide nucleic acid probe number 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 12; Page 51; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
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/note= "amidated"
                                                                                                          387/c
AAZ27387 standard; DNA; 15 BP.
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1134 CACCTCCAGCTCCA 1147
                                                                                                                                                                                             (first entry)
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                           CGCCACCAGCTCCA
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modified_base
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                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                          AAZ27387;
                                                                                     RESULT 1581
                                                                                                          AAZ27387,
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This sequence represents a peptide nucleic acid that can be used in the composition of the invention. The composition comprises at least 1 probling polyware (PP), at least 1 annealing polyware (PP), at least 1 annealing polyware (PP), at least 1 annealing polyware (PP) and acceptor (A) groups where at least 1 of the component polymers is a non-nucleic acid polymer. The compositions are present (or praticularly used to detect, identify or quantify nucleic acids that are present (or produced) in a closed tube assay, e.g. the product of an amplification reaction, or present in (living) cells or tissue. Some preferred applications are detecting viruses and other microorganisms (e.g. in foods, water, pharmaceuticals, etc., including biological warfare agents); to determine effects of antimicrobial agents; for diagnosis of disease (e.g. genetic disorders such as cancer, thalassemia, cents fibrosis etc.); for analysis/manipulation of plants and their genes, and in screening for potential drugs or factors that indicate a susceptibility to drug increatchose. Many different targets can be detected in a single reactions. Many different targets can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Complex of probing and annealing polymers, labeled with donor and acceptor molecules, useful for detecting, identifying or quantifying target nucleic acids.
                                                                                                                                                                                                                                                                      Peptide nucleic acid; probing polymer; annealing polymer; detection; identification; virus detection; microorganism; antimicrobial agent; disease; genetic disorder; cancer; thalassemia; cystic fibrosis; ss.
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note= "5(6)-carboxyfluorescein- 8-amino-3,6-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      detected in a single reaction, using a common (AP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= b
/note= "A-lysine(dabcyl)-NH2"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    dioxaoctanoic acid-A"
                                                                                                                                                                                                                                            Peptide nucleic acid probe number 9.
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                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                               BP.
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302 TGGAGCTGTTGGTG 315
                                                                                                                             AAZ27395 standard; DNA; 15
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Gaps

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Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels

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This sequence represents a peptide nucleic acid that can be used in the composition of the invention. The composition comprises at least 1 probing polymer (PP), at least 1 annealing polymer (AP) and acceptor (A) groups where at least 1 of the component polymers is a non-nucleic acid polymer. The compositions are particularly used to detect, identify or quantify nucleic acids that are present (or produced) in a closed tube assay, e.g. the product of an amplification reaction, or present in (living) cells or tissue. Some preferred applications are detecting viruses and other microorganisms (e.g. in foods, water, pharmaceuticals, etc., including biological warfare agents); to determine effects of antimicrobial agents; for diagnosis of disease (e.g. genetic disorders such as cancer, thalassemia, cystic fibrosis etc.); for analysis/manipulation of plants and their susceptibility to drug interactions. Many different targets can be detected in a single reaction, using a common (AP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Complex of probing and annealing polymers, labeled with donor and acceptor molecules, useful for detecting, identifying or quantifying target nucleic acids.
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/note= "5(6)-carboxyfluorescein- 8-amino-3,6-
dioxaoctanoic acid-A"
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/note= "A-lysine(dabcyl)-NH2"
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                                                                                                                                                                                                                       Peptide nucleic acid probe number 9.
                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                      AAZ27395 standard; DNA; 15 BP.
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1134 CACCTCCAGCTCCA 1147
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                                                                                                      AAZ27395,
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2; Indels

Conservative

Local Similarity nes 12; Conserv

Best Loc Matches

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capable of modulating a process in a biological system. The method capable of modulating a process in a biological system. The method compaintses: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (SBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules with endonuclease activity and catalytic activity, from the present invention, are used to modulate gene expression in plant and mammalian cells and to cleave target nucleic acid, particularly for treating systems. Our acceptance of a caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic ascites and infection. They may also be used to detect genetic drift and ascites and infection. They may also be used to detect genetic drift and ascites and infection accer, includate expression of the Raf gene, are used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or generally any condition associated with the level of c-raf. Introduction of suchivity. AAV90922 to AAV93877 represent NACs that can be used in the method, specifically for modulating the expression of a Raf gene
                                                                                                                                                                                                                                                                           Human, c-raf, A-raf, B-raf, hammerhead ribozyme, hairpin ribozyme,
target; substrate; catalyst, modulation, expression; Raf gene; delivery,
screening; identification; synthesis; deprotection; purification; cancer;
inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;
restenosis; rheumatoid arthritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying new catalytic nucleic acid that modulates selected processes - sespecially tibozymes that cleave Raf RNA for treating cancer, restencis, and also new ribozymes and modified nucleoside triphosphates used as antiviral agents and synthons.
                                                                                                                                                                                                                                         Target sequence with sequence homology to c-raf and B-raf position 1603
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Burgin A;
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Beigelman L, Mcswiggen JA, Karpeisky A,
J, Workman CT, Beaudry A, Sweedler D;
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97US-0049002P.
97US-0051718P.
97US-0061321P.
97US-0061321P.
97US-0061324P.
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302 TGGAGCTGTTGGTG 315
                                                                                                                             AAV93860 standard; RNA; 15
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                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
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02-OCT-1997;
02-OCT-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-NOV-1998
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09-JUN-1997
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Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention is directed to methods, kits and compositions pertaining to linear Beacons. It provides novel polymers that comprise at least one linear Beacons. It provides novel polymers that comprise at least one linked donor moiety, at least one linked acceptor moiety where the donor and acceptor moieties are separated by a nucleobase sequence (NBS) and where the polymer does not form a stem and loop hairpin and is further characterized in that the efficiency of transfer of energy between the donor and acceptor moieties when the polymer is solvated in aqueous solution is independent of at least 2 variables selected from: (a) NBS length; (b) spectral overlap of the donor moiety and the acceptor moiety; (c) presence or absence of magnesium in the aqueous solution; and (d) ionic strength of the aqueous solution. The polymers earthouture such that upon hybridisation to a target sequence the efficiency of energy transfer between the donor and acceptor moieties is altered such that upon hybridisation and acceptor moieties is altered such quantitate occurrence of the hybridisation event. The polymers can be used to detect organisms in e.g. food, beverages, water, pharmaceutical,
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                                                                                                                                                                                                                                                                       Linear Beacon; polymer; nucleobase sequence; hybridisation; signal; energy transfer; organism detection; plaramacoutical; beta-thalassemia; nucleic acid detection; sickle cell anemia; Factor-V Leiden; cancer; cystic fibrosis; forensic; prenatal screening; paternity testing; probe;
                                                            Gaps
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                                  Score 10.8; DB 1; Length 15;
Pred. No. 9e+02;
5; Mismatches 2; Indels
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/note= "5(6) carboxyfluorescein labeling"
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           Sequence 15 BP; 2 A; 5 C; 2 G; 0 T; 6 U; 0 Other;
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/note= "dabcylated"
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98US-00179162.
                                                                                                                                                                                                                                                  DNA probe sequence DNA003-15.
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                                  Query Match
Best Local Similarity 50.0%;
Matches 7; Conservative
                                                                                    933 CCTCCTCTTCATTG 946
                                                                                                 ccuacucucaugg 15
                                                                                                                                                                                                                       (first entry)
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modified_base
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                                                                                                                                                                                                                                                                                                                                                 Synthetic.
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personal care products, dairy products or environmental samples. They can be used to examine clinical samples such as clinical specimens or equipment, fixtures and products used to treat humans or animals. They can also be used to detect a target sequence which is specific for a genetically based disease, e.g. beta-thalassemia, sickle cell amemia, Factor-V Leiden, cystic fibrosis and cancer related targets such as p55, p10, BRC-1 and BRC-2. They can also be used to detect a target sequence in a formacic technique such as prenatal screening, paternity testing, identity confirmation or crime investigation. Sequences AAX82052-56 represent DNA probe sequences which are of equivalent subunit length to linear baccons and is used to exemplify the method of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Linear Beacon; polymer; nucleobase sequence; hybridisation; signal; energy transfer; organism detection; pharmaceutical; beta-thalassemia; nucleic acid detection; sickle cell anemia; Factor-V Leiden; cancer; cystic fibrosis; forensic; prenatal screening; paternity testing; probe;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
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/note= "5(6)carboxyfluorescein labeling"
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/note= "dabcylated"
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98US-00179162.
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26-OCT-1998;
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Tue Mar

Disclosure; Page 14; 121pp; English.

cc where the polymer does not form a stem and loop hairpin and is further characterized in that the efficiency of transfer of energy between the donor and acceptor moieties when the polymer is soluted in aqueous solution; is independent of at least 2 variables selected from: (a) NBS length; (b) spectral overlap of the donor moiety and the acceptor moiety; (c) presence or absence of magnesium in the aqueous solution; and (d) conic strength of the aqueous solution. The polymers have a structure such that upon hybridisation to a target sequence the efficiency of energy transfer between the donor and acceptor moieties is altered such that detectable signal from at least one moiety can be used to courrence of the hybridisation event. The polymers can be used to detect organisms in e.g. food, beverages, water, pharmaceutical, personal care products dairy products or environmental samples. They can also be used to examine clinical samples such as clinical samples. They can also be used to detect a target sequence which is specific for a genetically based disease or is specific for a predisposition to a genetically based disease, e.g. beta-rhaiassemia, sickle cell anemia, rector-V Leiden, cystic fibrosis and cancer related targets such as p55, p10, BRC-1 and BRC-2. They can also be used to detect a target sequence of an also be used to crime investigation. Sequences AAX82052-56 represent DNA probe sequences which are of equivalent subunit length to linear baecons and is used to exemplify the method of the invention \$

Sequence 15 BP; 4 A; 8 C; 2 G; 1 T; 0 U; 0 Other;

.. 0 Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels 302 TGGAGCTGTTGGTG 315 6

; 0

Gaps

15 TGGAGCTGGTGGCG 2

g

RESULT 1

AAZ92431 standard; DNA; 15 BP

AAZ92431;

(first entry) 05-JUN-2000 Rhizoctonia sp. PCR primer, Eab group.

Antifungal, biocontrol, binucleate, non-pathogenic fungus, strain identification, classification, internal transcribed spacer; ITS region, 5.8s region; ribosomal; PCR primer; ss.

Rhizoctonia sp.

WO200004779-A1.

03-FEB-2000

99WO-GB002406. 23-JUL-1999; 98GB-00016265. 24-JUL-1998; (TECN-) INST TECNICO AGRONOMICO PROVINCIAL SA. (RUFF/) RUFFLES G K.

Rubio Susan V, Salazar Torres O, Julian Esquivias M; Gonzales Garcia V, Gomez-Acebo Gullon E, Munoz Gomez R; Lopez Corcoles H;

WPI; 2000-182492/16.

Protection of plants including tomato, pepper, lettuce, radish, parsley, sugar beat, rape, and onions against pathogenic fungi, uses a binucleate Rhizoctonia strain for biocontrol.

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The invention relates to a novel method of protecting plants from pathogenic fungi. The method comprises biocontrol of pathogenic fungi via the use of a non-pathogenic, binucleates Rhizoctonia is selected by modecular detection of certain binucleate Rhizoctonia is selected by modecular detection of certain internal transcribed spacer (ITS)-5.8 ribosomal DNA sequences (AAZ93445-CC AAZ9245), which vary between strains of these fungi. The invention also encompasses a concentrate for use in plant protection containing viable primerial from the binucleate Rhizoctonia strains of the invention, and primer invention are used as biocontrol agents for related pathogenic fungi. Binucleate Rhizoctonia isolate Eab-F2 was tested for its ability to consecutively (the binucleate Eab-F2 was tested for its ability to consecutively (the binucleate strain sere inculated either simultaneously or consecutively (the binucleate strain followed by the pathogenic strain), consecutively (the binucleate strain followed by the pathogenic strain), conficulation), whereas no protection was provide protection against the pathogenic strain when it had been allowed to colonise the vegetal surface. The binucleate strain was provided when both strains were inoculated simultaneously. The method of the invention may be used to inoculate and alfalfa, trees and ornamental plants. The method is crealable and provides variety of plants from pathogenic fungal infected rape, crealable and provides economical biocontrol of diseases caused by the may be used to identify and distinguish strains of Rhizoctonia solani. Sequences, thereby classifying their pathogenicity
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Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels 1204 CCCTATCAGGGGG 1217 ઠે

1 CCCTATTAAGGGGC 14

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Sequence 15 BP; 4 A; 4 C; 4 G; 3 T; 0 U; 0 Other;

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RESULT 1588 AAZ64021/c ID AAZ64021 standard; RNA; 15 BP.

AAZ64021;

28-MAR-2000 (first entry)

Bnzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage; cirrhosis; liver fallure; hepatocellular carcinoma; interferon; cancer; autoimmune disease; ss.

Substrate for hammerhead ribozyme which cleaves HCV RNA at nt. 4132.

Hepatitis C virus.

WO9955847-A2.

04-NOV-1999.

98US-0083217P. 98US-0100842P. 99US-00257608. 99US-00274553. 99WO-US009027 27-APR-1998; 18-SEP-1998; 25-FEB-1999; 23-MAR-1999; 26-APR-1999;

(RIBO-) RIBOZYME PHARM INC

Macejak D; Pavco PA, Blatt L, Mcswiggen JA, Roberts E,

WPI; 2000-062023/05

The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the describtor line. (HCV) RNA sequence at the base position given in the describtor line. The HCV sequence was screened for optimal ribozyme is target sites using a computer folding algorithm and regions of the make which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their activities optimised by either varying the rarget of the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with hepatocellular carcinoma: The ribozymes may be used in combination with interferon to treat HCV infection, other infectious diseases, autoimmune Claim 1; Page 78; 123pp; English. ribozymes for th tis C infection. Novel riboz hepatitis (

Sequence 15 BP; 0 A; 1 C; 8 G; 0 T; 6 U; 0 Other;

Gaps ; 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels Conservative Local Similarity les 12, Conserv Query Match Best Loca Matches

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AAZ63941 standard; RNA; 15 BP. 28-MAR-2000 AAZ63941; RESULT 1589 AAZ63941/

(first entry)

Substrate for hammerhead ribozyme which cleaves HCV RNA at nt. 3095.

Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage; cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer; autoimmune disease; ss.

Hepatitis C virus

WO9955847-A2

04-NOV-1999

99WO-US009027. 26-APR-1999;

98US-0083217P. 98US-0100842P. 99US-00257608. 99US-00274553. 18-SEP-1998; 25-FEB-1999; 27-APR-1998;

RIBO-) RIBOZYME PHARM INC

23-MAR-1999;

Macejak D; Roberts E, Pavco PA, Mcswiggen JA, Blatt L,

WPI; 2000-062023/05.

Novel ribozymes for the treatment of diseases and conditions related to hepatitis C infection.

Claim 1; Page 75; 123pp; English.

The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves

the Hepatitis C virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme target sites using a computer folding algorithm and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their activities optimised by atther varying the length of the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with Hepaticellular carcinoma. The ribozymes may be used in combination with interferon to treat HCV infection, other infectious diseases, autoimmune diseases, and cancer

the treatment of diseases and conditions related to

Sequence 15 BP; 2 A; 2 C; 6 G; 0 T; 5 U; 0 Other;

Gaps ; 0 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 2; Indels ive 0; Mismatches 2; Indels Best Local Similarity 85.7 Matches 12, Conservative Query Match

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1042 ACTACTAGGCCCCT 1055 14 ACGAATAAGCCCCT 1 ઠે g

AAZ64114 standard; RNA; 15 BP. RESULT 1590 AAZ64114

28-MAR-2000 (first entry)

AAZ64114;

Substrate for hammerhead ribozyme which cleaves HCV RNA at nt. 5139.

cleavage; Enzymatic nucleic acid, hammerhead ribozyme, virus replication, cirrhosis, liver failure; hepatocellular carcinoma, interferon; autoimmune disease; ss.

Hepatitis C virus

WO9955847-A2.

04-NOV-1999

99WO-US009027. 26-APR-1999;

98US-0083217P. 98US-0100842P. 99US-00257608. 99US-00274553. 18-SEP-1998; 25-FEB-1999; 27-APR-1998; 23-MAR-1999;

(RIBO-) RIBOZYME PHARM INC.

Macejak Mcswiggen JA, Roberts E, Pavco PA, Blatt L,

WPI; 2000-062023/05.

Novel ribozymes for the treatment of diseases and conditions related to hepatitis C infection.

Claim 1; Page 81; 123pp; English.

The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the Hepatitis C virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme target sites using a computer folding algorithm and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their activities optimised by either varying the length of the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or

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viral replication, and are used to treat diseases associated with hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and hepatocellular carcinoma. The ribozymes may be used in combination with interferon to treat HCV infection, other infectious diseases, autoimmune Sequence 15 BP; 2 A; 8 C; 2 G; 0 T; 3 U; 0 Other; diseases, and cancer 88888888

.. 0 0.5%; Score 10.8; DB 1; Length 15; 78.6%; Pred. No. 9e+02; tive 1; Mismatches 2; Indels Matches 11; Conservative Query Match Best Local Similarity

1085 CAGGCTTCACCCCC 1098

δ g

2 CAGGCUCCACCUCC 15

RESULT 1591 AAZ64114/c

AAZ64114 standard; RNA; 15 BP

AAZ64114;

(first entry) 28-MAR-2000 Substrate for hammerhead ribozyme which cleaves HCV RNA at nt. 5139.

Bnzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage; cirrhosis; liver fallure; hepatocellular carcinoma; interferon; cancer; autoimmune disease; ss.

Hepatitis C virus.

W09955847-A2

04-NOV-1999

99WO-US009027 26-APR-1999;

98US-0083217P. 98US-0100842P. 99US-00257608. 99US-00274553.

27-APR-1998; 18-SEP-1998; 25-FEB-1999; 23-MAR-1999;

(RIBO-) RIBOZYME PHARM INC.

Blatt L, Mcswiggen JA, Roberts E, Pavco PA, Macejak D;

WPI; 2000-062023/05.

Novel ribozymes for the treatment of diseases and conditions related to hepatitis ${\tt C}$ infection.

Claim 1; Page 81; 123pp; English.

The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the depatitis C virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme target sites using a computer folding algorithm and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their activities optimised by either varying the length of the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and thereferon to treat HCV infection, other infectious diseases, autoimmune diseases, and cancer

Sequence 15 BP; 2 A; 8 C; 2 G; 0 T; 3 U; 0 Other;

Gaps ; Length 15; Indels 0.5%; Score 10.8; DB 1; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Query Match
Best Local Similarity 85.77
Matches 12, Conservative

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1021 GAGGGGGAGCTTGA 1034

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14 GAGGTGGAGCCTGA 1

AAZ63818 standard; RNA; 15 BP. AAZ63818/

RESULT 1592

AAZ63818;

(first entry) 28-MAR-2000

Substrate for hammerhead ribozyme which cleaves HCV RNA at nt. 1861.

Bnzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage; cirrhosis; liver fallure; hepatocellular carcinoma; interferon; cancer; autoimmune disease; ss.

Hepatitis C virus.

WO9955847-A2.

04-NOV-1999.

99WO-US009027 26-APR-1999;

98US-0083217P. 98US-0100842P. 99US-00257608. 99US-00274553. 18-SEP-1998; 25-FEB-1999; 23-MAR-1999;

(RIBO-) RIBOZYME PHARM INC.

Blatt L, Mcswiggen JA, Roberts E, Pavco PA, Macejak

WPI; 2000-062023/05.

Novel ribozymes for the treatment of diseases and conditions related to hepatitis C infection.

Claim 1; Page 71; 123pp; English.

The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves conzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the Heyatitis C virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme target sites using a computer folding algorithm and regions of the miNA which did not form secondary folding structures and contained potential cribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their activities optimised by either varying the length of the binding arms or by modification to prevent degradation by concleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and hepatitis continual are trabozymes may be used in combination with interferon to treat HCV infection, other infectious diseases, autoimmune diseases, and cancer

Sequence 15 BP; 2 A; 4 C; 3 G; 0 T; 6 U; 0 Other;

; Query Match
0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches 2; Indels

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Gaps

735 GAAACAGAACACCG 748 g Ś

15 GAAGAGTACACTG 2

AAZ62752;

RESULT 1593

AAZ627

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The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the Appatitis C virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme target sites using a computer folding algorithm and regions of the m2NA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised to target these sites and their acitylises optimised by either varying the target these sites and their acitylises optimised by either varying the carget the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and heteron to treat HCV infection, other infectious diseases, autoimmune cancer.
                                                 Enzymatic nucleic acid, hammerhead ribozyme; virus replication; cleavage; cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer; autoimmune disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel ribozymes for the treatment of diseases and conditions related to
                 Substrate for HH ribozyme HCV-5133 which cleaves HCV RNA at nt.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Macejak D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Haemopoietin receptor family, NR8; antibody, diagnosis; blood formation disorder; fusion protein; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15 BP; 2 A; 6 C; 5 G; 0 T; 2 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pavco PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Blatt L, Mcswiggen JA, Roberts E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page 59; 123pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAZ90881 standard; DNA; 15 BP.
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98US-0100842P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24-MAY-2000 (first entry)
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                                                                                                                                                        Hepatitis C virus.
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18-SEP-1998;
25-FEB-1999;
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                                                                                                                                                                                                                                                                                               26-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the Hepatitis C virus (HCV) RNA sequence at the base position given in the descriptor line. The HCV sequence was screened for optimal ribozyme target sites using a computer folding algorithm and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified Rhozymes were synthesised to target these sites and their activities optimised by either varying the length of the binding arms or by modification to prevent degradation by nucleases. The ribozymes of the invention inhibit gene expression and/or viral replication, and are used to treat diseases associated with Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and cheated expression to treat HCV infection, other infectious diseases, autoimmune cancer.
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                                                                                                                                                                                                                                                   cleavage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel ribozymes for the treatment of diseases and conditions related to hepatitis C infection.
                                                                                                                                                                                                                                                Enzymatic nucleic acid, hammerhead ribozyme, virus replication, cleavag
cirrhosis, liver failure, hepatocellular carcinoma, interferon, cancer;
autoimmune disease, ss.
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                                                                                                                                                                                                       Substrate for HH ribozyme HCV-6924 which cleaves HCV RNA at nt. 6924.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pavco PA, Macejak D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Seguence 15 BP; 0 A; 8 C; 4 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3latt L, Mcswiggen JA, Roberts E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            laim 1, Page 62; 123pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98US-0083217P.
98US-0100842P.
99US-00257608.
99US-00274553.
                                                               AAZ62752 standard; RNA; 15 BP.
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                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-062023/05.
                                                                                                                                                                                                                                                                                                                                           Hepatitis C virus
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                                                                                                                                                                                                                                                                                                                                                                                        409955847-A2
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25-FEB-1999;
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The invention relates to the isolation of sequences encoding human haemopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGYNNNTGGAGY encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences AAZ59258-Z59300 and AAZ90816-Z99925 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are used for the treatment of such disorders
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                                                                                                                                                                                                                                                                                                                                                   Score 10.8; DB 1; Length 15; Pred. No. 9e+02; 2; Indels 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 2 A; 1 C; 8 G; 4 T; 0 U; 0 Other;
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                           Example 1; Page 43; 176pp; Japanese.
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Best Local Similarity 85.7<sup>3</sup>
Matches 12, Conservative
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Best Local
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                                                                                                99WO-JP003351
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98JP-00297409
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19-OCT-1998;
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WO9967290-A1
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The invention relates to the isolation of sequences encoding human haemopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGYNNNTGGAGY encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences AAZ59258-Z59300 and AAZ90816-Z9025 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are used for the treatment of such disorders
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Haemopoietin receptor family; NRB; antibody; diagnosis; blood formation disorder; fusion protein; probe; ss.
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                                                                                                                                                                                                                                              (CHUS ) CHUGAI RES INST MOLECULAR MEDICINE INC.
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                                                                                                                                                                                                                                                                                    Maeda M;
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                                                     Homo sapiens.
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19-OCT-1998;
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 Mismatches
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98JP-00297409
                                  1142 GCTCCACCTATACC 1155
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                                                                                                                                                         AAZ90913 standard; DNA; 15
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                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                 Human NR8 gene probe #141
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 Conservative
                                                                    GCTCCACCTACTCC
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les 12; Conserv
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                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
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12;
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RESULT 1599

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Best Loca Matches

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                                                                                                                                       The present sequence is a potential polypurine tract sequence (PPT). The modification of this type of sequence has been shown to optimise the performance of lentiviral vectors. Retroviral based vectors can be used in the gene therapy of many diseases, including cancer, inflammatory diseases such as rheumatoid arthritis and systemic lupus erythematosus, cardiac arrest, myocardial infraction, diseases of the gastrointestinal tract, glandular diseases, renal diseases, dermal diseases, infertility, disease, antoimmune diseases, parkinson's disease, Alzheimer's disease, Down's syndrome, infectious diseases, and complications due to transplantation or gene therapy
                                             Retroviral vectors with increased titre and transduction ability for use in medicine, especially gene therapy comprises a plus-stranded synthesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= b
/note= "Flu-OO-Adenine, Cy3-O-Adenine or Cy3-OOE, where
Flu is 5(6)-carboxyfluorescein, O is 8-amino-3,6-
dioxaoctanoic acid, Cy3 is cyanine 3 dye from Amersham,
is a solubility enhancer"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tag= c
/note= "optionally Adenine-Lysine(dabcyl) for probe BK-
Ras-Cy3"
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1. .15
/*tag= a
/note= "Peptide-nucleic acid backbone"
                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 8 A; 0 C; 7 G; 0 T; 0 U; 0 Other;
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                                                                                                          Disclosure, Page 40; 50pp, English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAA29019 standard; DNA; 15 BP.
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                WPI; 2000-400087/34.
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modified_base
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acide which had been electrostatically bound to polyethylane imine (PEI)
acide which had been electrostatically bound to polyethylane imine (PEI)
acide which had been electrostatically bound to polyethylane imine (PEI)
acide which had been electrostatically detected using labeled peptide-
nucleic acid (PNA) probes where the labeled (neutral) PNA would not
become immobilized to the beads in the absence of target nucleic acid,
become immobilized to the beads in the absence of target nucleic acid,
become immobilized to the beads in the absence of target nucleic acid,
become immobilized to the beads in the become immobilized to the beads, if the
target nucleic acid was present. The DNA templates for PCR were the human
base 129 (see AAA29027-28). Novel compositions comprise a matrix, a
target nucleic acid sequence which is electrostatically hybridizes to a
natrix and a non-nucleotide probe which specifically hybridizes to a
complexes can be detected, identified or quantitated under a wide range
of assay conditions. Reversible binding allows the complex to be removed
from the matrix for analysis. The method is rapid, sensitive, reliable
and versatile in detecting target sequences which are particular to
organisms found in fecod, beverages, water and pharmaceutical products.
The non-nucleotide probe/target sequence is protected against degrade
conganisms contained by ample can be treated with enzymes to degrade
sample contaminants. The methods, etc. are especially useful for
detection of single point mutations, and hence analysis of a genetically
be assed disease and in forensic techniques such as prenatal screening,
containing testing, identity confirmation or crime investigation
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/note= "Flu-OO-Adenine, Cy3-O-Adenine or Cy3-OOE, where
Flu is 5(6)-carboxyfluorescein, O is 8-amino-3,6-
dioxacctanoic acid, Cy3 is cyanine 3 dye from Amersham,
is a solubility enhancer"
                                                         Composition for identifying target sequence of nucleic acids for detecting genetic-diseases and pathogens in food and water, comprises -nucleotide probe which sequence specifically hybridizes to target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; rative 0; Mismatches 2; Indels
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note= "Peptide-nucleic acid backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 4 A; 8 C; 2 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Peptide-nucleic acid probe WT-15Flu.
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                                                                                                                                                                       Example 8; Page 33; 82pp; English.
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Best Local Similarity 85.7'
Matches 12, Conservative
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*tag≃
                  WPI; 2000-423449/36.
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modified_base
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AAA29019/c
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AAA AAA29016-26 were used to examine whether the presence of target nucleic acids which had been electrostatically bound to polyethylene imine (PEI) decide which had been electrostatically be acids using the decide desired begins a considerable of the beads could be specifically detected using labeled peptidenucle acid (PNA) probes where the labeled (neutral) PNA would not become immobilized to the beads in the absence of target nucleic acid, become immobilized to the beads, if the target nucleic acid was present. The DNA templates for PCN were the human K-ras gene and a mutant K-ras gene, which contains a point mutation at the assence and a mutant K-ras gene, which contains a point mutation at the assence and a non-nucleotide probe which specifically hybridizes to a portion of one or more target sequences. Immobilized probe/target complexes can be detected, identified or quantitated under a wide range of assay conditions. Reversible binding allows the complex to be removed from the matrix for analysis. The method is rapid, sensitive, reliable and versatile in detecting target sequences which are particular to organisms found in food, beverages, water and pharmaceutical production probe/target sequences which are particular or organisms and hence the sample can be treated with enzymes to degrade sample contaminants. The methods, ere especially useful for detection of single point mutations, and hence analysis of a genetically based disease and in forensic techniques such as prenatal screening, beach assenting testing, identity confirmation or crime investigation Composition for identifying target sequence of nucleic acids for detecting genetic-diseases and pathogens in food and water, comprises non-nucleotide probe which sequence specifically hybridizes to target /note= "optionally Adenine-Lysine(dabcyl) for probe BK-Ras-Cy3" 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels Sequence 15 BP; 4 A; 8 C; 2 G; 1 T; 0 U; 0 Other; Hyldig-Nielsen JJ, Fiandaca MJ, Example 8; Page 33; 82pp; English. 99WO-US028966 98US-0111439P 302 TGGAGCTGTTGGTG 315 AAA53251 standard; DNA; 15 (first entry) Query Match Best Local Similarity 85.7 Matches 12; Conservative (BOST-) BOSTON PROBES INC VPI; 2000-423449/36 WO200034521-A1 05-OCT-2000 Johansen JT, 08-DEC-1999; 08-DEC-1998; AAA53251; RESULT 1603 AAA53251/c SXXXXXXXXXXXXXXXXX ð g

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Oligonucleotide probes hybridizing to genes encoding xenobiotics metabolizing enzymes cytochrome P450 and N-acetyl-transferase 2 (NAT2), useful for detecting genetic polymorphisms.

(HOPI-) HOPITAL SAINTE-JUSTINE

Sinnett D, Labuda D;

WPI; 2000-350761/30.

Coull JM;

99WO-CA000982

WO200024926-A1

schultz451-1.rng

98US-00177359

23-OCT-1998;

22-OCT-1999;

04-MAY-2000

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The present sequence is a mutated allele-specific oligonucleotide probe for the G590A mutation in the N-acetyltransferase 2 (NAT2) gene. NAT2 is a sanobiotic-metabolishing enzyme. This probe can be used to determine the genotype of an individual at the nat2 locus, and thus determine their susceptibility to toxicity associated with certain drugs, and to certain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Osteogenic protein-1; OP-1; morphogenic protein; mouse; osteoporosis; morphogen concentration; bone metabolism disease; ss.
                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                               Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Murine OP-1 Wt-1/Egr-1 binding site.
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                                                                                                                                                                                                           Claim 22; Page 17; 58pp; English
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93US-00147023.
94US-00255250.
95US-00449700.
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                                                                                                                                                                                                                                                                                        types of cancer
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24-MAY-1995;
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Gaps

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N-acetyltransferase 2; NAT2; cancer; drug therapy; xenobiotic metabolism; allele-specific oligonucleotide probe; ss.

Unidentified

N-acetyltransferase 2 G590A mutant ASO probe.

expression by incubating a candidate compound with a nucleic acid with a reporter gene operatively associated with an OP-1 non-coding nucleic acid fragment

Disclosure; Col 47; 33pp; English.

the expression of osteogenic protein-1 (OP-1) uses a cell transfected the expression of osteogenic protein-1 (OP-1) uses a cell transfected with a nucleic acid sequence comprising a reporter gene and an upstream non-coding sequence from OP-1. OP-1 is a tissue morphogenic protein. The method is useful for screening compounds capable of stimulating or The compounds which may be used as therapeutics for in vivo and ex vivo mammalian applications, e.g. morphogen expression inducing compounds for correcting and alleviating a diseased condition or to regenerate lost or damaged tissue. The compounds may also be used to maintain viability of the differentiated phenotype of cells in culture. Morphogen expression inhibiting compounds identified by the new method can be used to condulate the degree and/or timing of morphogen concentration. Compounds which upcredulate levels of circulating OP-1 in vivo can be used to correct bone corrections may also be used to seed to correct bone corrections diseases such as osteoporosis. This sequence cortained in the upstream region of the osteogenic protein-1 (OP-1) gene. The DNA binding commence at these sites and control transcription of DNA protein. sequences at these sites

Sequence 15 BP; 0 A; 10 C; 1 G; 4 T; 0 U; 0 Other;

0; Gaps 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 2; Indels /ative 0; Mismatches 2; Indels Best Local Similarity 85.73 Matches 12; Conservative Query Match

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AAA66946/ RESULT

BP. AAA66946 standard; DNA; 15

AAA66946;

(first entry) 19-OCT-2000 Human leukocyte antigen A allele DNA probe A239A SEQ ID NO:4.

Human leukocyte antigen, HLA; class I allele type; probe; PCR primer; amplification; hybridisation; organ transplant; gene typing; diagnosis;

Homo sapiens.

WO200031295-A1.

02-JUN-2000.

99WO-JP005527. 07-OCT-1999;

98JP-00335151. 26-NOV-1998;

(SHIO) SHIONOGI & CO LTD.

Moribe T, Kaneshige T;

WPI; 2000-400097/34.

Simple, rapid and accurate method for distinguishing HLA class I allele type with possibility of mechanization and automation, applicable in judging donor-recipient compatibility during organ transplant and disease diagnosis.

Claim 8; Page 50; 83pp; Japanese

The present invention describes a method for distinguishing a human leukocyte antigen (HLA) class I antigen or allele by a combination of polymerase chain reaction (PCR) using a primer pair whereby all HLA-A, -B or -C alleles can be amplified or using reverse hybridisation analysis comprising a DNA probe covalently bonded to microtitre plate wells which are hybridisable specifically with the base sequence of at least one specific HLA-A. B or -C allele. The method is applicable in gene typing, judging donor-recipient compatibility during organ transplant and correlation analysis for diagnosis of various diseases. The method is simple, rapid and accurate, with possibility of mechanisation and automation, without the problems encountered by using the prior-art techniques. AAA66943 to AAA67072 represent oligonucleotide probes and PCR primers for use in the method of the present invention

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Sequence 15 BP; 4 A; 3 C; 8 G; 0 T; 0 U; 0 Other;

Query Match
0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps

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RESULT 1606

BP. AAA87040 standard; DNA; 15

AAA87040;

15-JAN-2001 (first entry)

Probe to AluI human gene.

Detection, nucleic acid hybrid; depolymerisation, analysis, SNP, single nucleotide polymorphism; identification, viral load, probe; genotyping, medical marker diagnostic; primer; target; mutation; genetic disease; ss.

Homo sapiens.

WO200049180-A1.

24-AUG-2000.

18-FEB-2000; 2000WO-US004242.

99US-00252436. 99US-00358972. 99US-00383316. 18-FEB-1999; 21-JUL-1999; 25-AUG-1999;

(PROM-) PROMEGA CORP.

Mandrekar M, Kephart D, Rhodes RB; Olson RJ, Wood KV, Welch R; Shultz JW, Lewis MK, Leippe D, Andrews CA, Hartnett JR, Gu T,

WPI; 2000-565377/52.

Determining presence or absence of a predetermined endogenous nucleic acid sequence by using an enzyme that depolymentizes the 3' end of an oligonuclectide probe hybridized to a target sequence to release identifier nucleotides.

Example; Page 373; 389pp; English.

The present invention describes a method (MI) for determining the presence or absence of a predetermined endogenous nucleic acid target sequence (ENAT). The method comprises hybridising a probe having an identifier nucleotide (IN) with ENAT which is treated with an enzyme that depolymerises the 3' and of hybridised NA to release the INS. MI is used for determining the number of known sequence repeats present in a nucleic

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acid target sequence in a nucleic acid sample. The method is also useful for determining whether a nucleic acid target sequence in a sample is an allele from a homozygous or heterozygous locus. The method is also useful for detection of mutations, remaislocations and SNPs in nucleic acids (including those associated with genetic disease), determination of viral foreisic samples. AAA86791 to AAA87079 and AAB12817 represent sequence which are used in the exemplification of the present invention. N.B. here is a discrepancy between the SEQ ID NO: and sequences given in the examples, and the SEQ ID NO: and sequences given in the from the present invention
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Seguence 15 BP; 5 A; 6 C; 1 G; 3 T; 0 U; 0 Other;

ö Gaps ö Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels 1249 GACCCCATCCCCAA 1262

2 GACCCCATCTCTAA 15 g

3357/c AAC68357 standard; DNA; 15 (first entry) 20-FEB-2001 AAC68357; RESULT 1607 AAC68357,

Juman IRRR oligonucleotide #13

Insulin receptor-related receptor; IRRR; chromosome 1q21-q24; obesity; dyslipidemia; diabetes; ss.

Homo sapiens.

#O200065090-A2

02-NOV-2000.

19-APR-2000; 2000WO-US010644

22-APR-1999; 99US-00296906. 22-JUN-1999; 99US-00337976.

(ZYMO) ZYMOGENETICS INC.

Whitmore TE; Lok S,

WPI; 2000-687365/67.

Detecting a chromosome 1q21-q24 abnormality for diagnosing metabolic disease, such as human obesity and diabetic disorders, comprises examining insulin receptor-related receptor gene and its gene products.

Claim 10; Page 43; 111pp; English.

The present invention relates to insulin receptor-related receptor (IRRR). Mutations in this gene indicate a chromosome 1q21-q24 abnormality. IRRR polypeptides and DNA may be useful in the diagnosis of of disorders associated with abnormal expression of the IRRR protein, for example obesity, dyslipidemia and diabetes

Sequence 15 BP; 2 A; 3 C; 7 G; 3 T; 0 U; 0 Other;

0; Gaps Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels

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14 GGCACTCACGACTC

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ABL57573/

BP. 573/c ABL57573 standard; DNA; 15

ABL57573;

(first entry) 26-JUL-2002

Nucleic acid probe z.

Concentration, quantification, mutation detection, polymorphic; polymerase chain reaction, PCR, probe; ss.

Unidentified.

EP1046717-A2

25-OCT-2000.

20-APR-2000; 2000EP-00108643

20-APR-1999; 99JP-00111601.

(NIBI-) JAPAN BIOINDUSTRY ASSOC. (AGEN) AGENCY OF IND SCI & TECHNOLOGY. (KANK-) KANKYO ENG CO LTD.

Kurane R, Kanagawa T, Kamagata Y, Kurata S, Yamada K, Yokomaku T; Koyama O, Furusho K;

WPI; 2000-657765/64.

Determining the concentration of a target nucleic acid, useful e.g. for detecting genetic mutations, comprises using a fluorescently labeled probe in which emission is reduced by binding to the target nucleic acid.

Example 7; Page 24; 55pp; English.

The invention relates to the determination of the concentration of a nucleic acid target, using a fluorescently labeled probe which produces creduced fluorescence emission when hybridisate to the target nucleic acid. The method comprises measuring the reduction in emission caused by the method comprises chain reaction, e.g. for the nucleic acids by a real-time polymerase chain reaction, e.g. for curcial acids to polymorphisms, and for analysing melting detecting gene mutations or polymorphisms, and for analysing melting curves of target nucleic acids to determine a Th value. Methods of the convention allow target nucleic acids to determine a Th value. Methods of the convention allow target nucleic acids to be quantified quickly, easily and accurately. Particularly there is no need to remove unbound probe, and of accurately. Particularly there is no need to remove unbound probe, and of accurately. Particularly there is no need to remove unbound probe, and accurately are introduced that inhibit amplification by Tag polymerase (so conventional Pork conditions can be used). The specificity of PCR is kept working and the limit of authoritation is reduced. Complex probes are not needed, and amplification can be mentioally generated by a computer) has a higher correlation coefficient than conventional graphs so more accurate quantitation is coefficient than conventional graphs so more accurate quantitation is coefficient than conventional graphs so more accurate quantitation is invention that was used for investigating the effects of the kinds of the bases in each target nucleic acid, and the kind of bases in its

Sequence 15 BP; 0 A; 9 C; 0 G; 6 T; 0 U; 0 Other;

. 0 Query March 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels

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1016 AAAAAGAGGGGAG 1029

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14 AAAAAGGGGGGGGG 1

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865 GGCACTGAGGACTC 878

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The present invention relates to the human uncoupling protein 3 mitochondrial, proton carrier) (UCP3) gene and polymorphisms. The polymorphisms are associated with obesity, especially diabetes mellitus associated obesity. They polymorphisms may be identified and analysed to determine whether an individual is susceptible to obesity and may be used as the basis for targeted design of drugs to treat obesity. The present sequence was used in the identification and amplification of UCP3
                                                                                                                                                      UCP3; uncoupling protein 3; polymorphism; obesity; diabetes mellitus; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nucleic acids encoding uncoupling protein 3 (mitochondrial, proton carrier) (UCP3) proteins comprising single nucleotide polymorphisms, useful for the design of drugs for treating obesity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; ml acetylcholine receptor; CHRM1; immunogen; antibody; Alzheimer's disease; dementia with Lewy bodies; DLB; allele specific oligonucleotide probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                           UCP3 polymorphism detection allele specific primer #55.
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(STEP/) STEPHENS J C.
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                                                            21-JUN-2001
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                    AAH18942;
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AAS02957/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Involves amplifying the nucleic acid sequences in a sample involves amplifying the nucleic acid sample by PCR and then cleaving the amplified products with uracil DNA glycosylase (UDG), the resulting DNA camplified products with uracil DNA glycosylase (UDG), the resulting DNA regeners blot hybridisation techniques. The method can be used to distinguish between two different sequences, for example for the detection of a DNA fragment carrying a mutation. The method is useful for detection of a DNA fragment carrying a mutation. The sequence containing a polymorphic restriction site associated with a diseases such as cystic fibrosis disease, and may be used for detecting infectious diseases. Genetic disorders such as sickle cell anaemia, cystic fibrosis, alpha or beta thalassaemia, muscular dystrophy, and Tay-Sachs disease may also be detected using the method. Oncogenes such as Sachs disease may also be detected using the method. Oncogenes such as cancers. The present sequence represents a fragment of the cystic fibrosis (CF) gene created by UDG cleavage. This sequence is used in an example of the invention and contains the position of a mutation site in themmet (AAA.7261) can be used to produce probes specifically to identify the mutation, which can then be used in the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detecting specific nucleic acid sequence in sample containing nucleic acids involves amplifying nucleic acid, cleaving amplified products with uracil-DNA glycosylase to obtain DNA segments and detecting segments.
                                                                                                                                                                                                                                                                  Uracil DNA glycosylase; UDG; infectious disease detection; cancer; sickle cell anaemia; cystic fibrosis; thalassaemia; muscular dystrophy; Tay-Sachs disease; ss.
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                                                                                                                                                                                                                               Cystic fibrosis gene UDG-digest fragment SEQ ID #7.
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                                                                                     AAA72650 standard; DNA; 15 BP.
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Local Similarity 85.7%;
es 12; Conservative (
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29-OCT-1997; 29-OCT-1997;

Matson RS;

US6090553-A. 18-JUL-2000.

Synthetic.

01-DEC-2000

AAA72650;

1609

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Gaps

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12-OCT-12000; 2000WO-US028211.

AAH18942 standard; DNA; 15 BP.

RESULT 1610

AAH18942 ID AAH1

invention

Query Match

Best Loca Matches

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The sequence represents an allele specific oligonucleotide probe for acetylcholine receptor. CHMR1. CHMR1 is one subtype of a family of 5 genetically distinct muscarinic acetylcholine receptors, mAChR, that play important roles in higher brain function such as learning and memory. The protein is a possible drug target for treatments for Alzheimer's disease and antibodies raised against the protein are useful for diagnosing and expression of the gene or activity of the protein, e.g. Alzheimer's disease developing treatments for diseases associated with the abnormal expression of the gene or activity of the protein, e.g. Alzheimer's disease and dementia with Lewy bodies
                                                                                                                               New variants of the ml muscarinic acetylcholine receptor gene, useful find treatment for Alzheimer's and dementia, have single nucleotide variations at one or more of five polymorphic sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Polynucleotide mutations that confers resistance to paclitaxel for detecting paclitaxel-resistant cells in tumor biopsies from patients receiving paclitaxel therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                            ch 0.5%; Score 10.8; DB 1; Length 15; 1 Similarity 85.7%; Pred. No. 9e+02; 12; Conservative 0; Mismatches 2; Indels
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                                                                       Nandabalan K,
                                                                                                                                                                                           Claim 15; Page 19; 52pp; English.
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                                          (GENA-) GENAISSANCE PHARM INC
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               99US-0159269P.
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                                                                       Denton RR,
                                                                                                    WPI; 2001-282046/29
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Best Local Similarity
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               13-OCT-1999;
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                                                                       Choi JY,
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Gaps , 0 The present invention relates to beta tubulin mutations at positions 214,

Claim 1; Page 7; 106pp; English.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleotide sequence which is a polymorphic variant of the fully defined 7821 base pair interleukin-1 beta (ILIB) gene reference sequence given in the specification or its fragment or complement. The ILIB gene expression and polymorphic variant is useful for therapeutic purposes, for studying the expression and biological function of ILIB, for developing drugs may roctean, and in diagnostics and forensic applications. The method is useful for developing tests and therapeutic treatments for inflammatory and immune disorders. The present sequence is an allele-specific oligonucleotide (ASO) probe for detecting ILIB gene
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sensitivity in a sample from a cancer patient and for determining paclitaxel sensitivity in a sample from a cancer patient and for determining suitable therapeutics to treat cancer patients. If a mutation in the H6H7 region of tubulin is present then a non-pactitaxel oncologic medication that is an antimitotic drug which inhibits microtubule assembly is given Resistance of tumor cells or patients to drugs which affects microtubule assembly can be determined with the use of mutations in H6H7 region of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New polynucleotide useful for therapeutic purposes, comprises nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; ILIB; interleukin-1 beta; gene therapy; antiinflammatory; single nucleotide polymorphism; SMP; polymorphic site; inflammatory disorder; immune disorder; allele-specific oligonucleotide; ASO; probe; ss.
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Pred. No. 9e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                            Length 15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human ILIB gene polymorphism ASO probe, SEQ ID NO: 23.
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                                                                                                                                                           Sequence 15 BP; 4 A; 6 C; 1 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                          0.5%; Score 10.8; DB 1;
85.7%; Pred. No. 9e+02;
iive 0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polymorphisms of interleukin-1B gene.
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Best Local Similarity 85.7%;
Matches 12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                       AAH24389 standard; DNA;
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Best Local Similarity
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                                                                                                                                tubulin
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schultz451-1.rng

1166 GICCCAACTTIGCG 1179 GGCCCAACTTTCCG

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AAD05869 RESULT

AAD05869 standard; DNA; 15

AAD05869;

(first entry) 31-JUL-2001 Human cholinergic receptor, muscarinic 3 gene ASO primer #13.

Human, cholinergic receptor muscarinic 3; CHRM3; drug screening; single nucleotide polymorphism; forensic application; gene therapy; Alzheimer's disease; Sjogren's syndrome; smooth musche contractility; sudden infant death syndrome; genotyping; haplotyping; ASO; chromosome 1g41-q44; allele-specific oligonucleotide; PCR primer; ss.

WO200129176-A2.

26-APR-2001

12-OCT-2000; 2000WO-US028247.

99US-0159860P. 15-OCT-1999; GENA-) GENAISSANCE PHARM INC.

Stephens JC; Choi JY, Denton RR, Nandabalan K,

WPI; 2001-300326/31.

Novel polymorphic variant of reference sequence for human cholinergic receptor, muscarinic 3 gene, useful for diagnostic and therapeutic purposes.

Claim 15; Page 19; 54pp; English.

The patent relates to polymorphic variants of human cholinergic receptor, muscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one single nucleotide polymorphism selected from cytosine at PS4. adenine at PS2 or PS3, and cytosine at PS4. The invention also relates to a method for genotyphing and haplotyphing the CHRM3 gene for identification of variants. The polymorphic variant is useful for therapeutic purposes. for studying the expression and biological function of CHRM3, as well as for developing drugs targetting the CHRM3 protein. The variant is also useful in diagnostics and forensic applications. The recombinant nonhuman corganism transfected with the polymorphic variant is useful for studying expression of CHRM3 isogenes in vivo, for in vivo screening and testing of therapeutic agents and compounds for Alzheimer's disease, Sjogren's syndrome, disorders associated with smooth muscle contractility and sudden infant death syndrom the CHRM3 protein variant is useful in drug screening assays and its antibodies are useful in immunoassays to detect CHRM3 protein variants in biological samples. The present sequence is an allow of the specific oliginucleotide (ASO) primer used for detecting human CHRM3 gene polymorphism

Sequence 15 BP; 3 A; 7 C; 1 G; 4 T; 0 U; 0 Other;

Gaps ö Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels

1131 CTTCACCTCCAGCT 1144 CTTCCCATCCAGCT 14

BP. AAS04304 standard; DNA; 15 AAS04304

AAS04304;

07-SEP-2001

Human DAXX DNA allele-specific oligonucleotide probe #5.

Death-associated protein 6; DAXX; polymorphism; haplotype pair; human; immune disorder; autoimmune disease; population diversity; ss; paternity testing; anthropological lineage; forensic application; oligonucleotide probe.

Homo sapiens

WO200125245-A2.

12-APR-2001.

05-OCT-2000; 2000WO-US027487.

06-OCT-1999; 99US-0157909P.

(GENA-) GENAISSANCE PHARM INC.

Nandabalan K, Chew A, Choi JY, Denton RR,

Stephens JC;

WPI; 2001-308220/32.

New human death-associated protein 6 (DAXX) gene variants comprising 19 polymorphic sites useful in studying the effect of variation on the biological activity of DAXX and in developing drugs targeting the protein.

Claim 15; Page 18; 97pp; English.

Sequences AASO4300-AASO4337 represent oligonucleotide probes specific for a DNA encoding human death-associated protein 6 (DAXX). This DNA may comparise one or more polymorphisms at specific nucleotide positions to comparise one or more polymorphisms at specific nucleotide positions between form one of nineteen possible polymorphic variants. Associations between a trait and a genotype or a haplotype of the DAXX gene can be identified by comparing the frequency of the genotype in a population can exhibiting the trait with that of a reference population. A higher frequency in the trait population indicates an association. Methods involving genotyping or haplotype pairs for the DAXX gene of an individual can lead to prediction of haplotype pairs for the DAXX gene of related individuals, and may be useful in studying the expression and biological individuals, and may be useful in studying the effect of the PAXX are useful in studying the effect of the colymorphic variants of DAXX are useful in studying the effect of the affinity of candidate drugs targeting DAXX as well as not the binding affinition diversity, anthropological lineage, autoimmume diseases and other immume diseates. Polymorphism is also useful for studying population diversity, anthropological lineage, paternity testing, forensic applications, and for identifying confidence the DAXX genetic variation and a trait such as level to measure binding affinities of one or more candidate drugs targeting the banks and the banks. the DAXX protein

Sequence 15 BP; 4 A; 9 C; 1 G; 1 T; 0 U; 0 Other;

.; 0 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ative 0; Mismatches 2; Indels Query Match
Best Local Similarity 85.7
Matches 12; Conservative

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Gaps

1198 GCACCACCCTATCA 1211 GCCCCACCCATCA 15

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BP.

AAF46516 standard; DNA; 15

RESULT 1617 AAF46516/C

schultz451-1.rng

IGFBP2 oligonucleotide #1355.

(first entry)

30-MAR-2001 AAF46516;

BP.

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New human death-associated protein 6 (DAXX) gene variants comprising 19 polymorphic sites useful in studying the effect of variation on the biological activity of DAXX and in developing drugs targeting the
                                                                                        Death-associated protein 6; DAXX; polymorphism; haplotype pair; human; immune disorder; autoimmune disease; population diversity; ss; paternity testing; anthropological lineage; forensic application; oligonucleotide probe.
                                                                                                                                                                                                                                                         Choi JY, Denton RR, Nandabalan K, Stephens JC;
                                                                          Human DAXX DNA allele-specific oligonucleotide probe #31
                                                                                                                                                                                                                                                                                                                                               Claim 15; Page 19; 97pp; English.
                                                                                                                                                                                                                                        (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                    05-OCT-2000; 2000WO-US027487.
                                                                                                                                                                                                                    06-0CT-1999; 99US-0157909P
                  AAS04330 standard; DNA; 15
                                                       (first entry)
                                                                                                                                                                                                                                                                           WPI; 2001-308220/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the DAXX protein
                                                                                                                                                              40200125245-A2.
                                                                                                                                             Homo sapiens
                                                        07-SEP-2001
                                                                                                                                                                                12-APR-2001
                                     AAS04330;
                                                                                                                                                                                                                                                           Chew A,
RESULT 1616
         AAS04330,
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Sequences AASO4300-AASO4337 represent oligomucleotide probes specific for a DNA encoding human death-associated protein 6 (DAXX). This DNA may comparise one or more polymorphisms at specific nucleotide positions to form one of nineteen possible polymorphic variants. Associations between a trait and a genotype or a haplotype of the DAXX gene can be identified by comparing the frequency of the genotype of the polymorphic nation. A higher can exhibiting the trait population indicates an association. Methods involving genotyping or haplotype pairs for the DAXX gene of an individual can lead to operation of haplotype pairs for the DAXX gene of an individual can individuals, and may be useful in studying the expression and biological function of DAXX, as well as in developing drugs targeting this protein. Polymorphic variants of DAXX are useful in studying the effect of the variation on the biological activity of DAXX as well as on the binding affinity of candidate drugs targeting DAXX as well as not be binding affinity of candidate drugs targeting DAXX as well as in a sociations to the binding associations between the DAXX genetic variation and or studying population diversity, anthropological lineage, paternity testing, forensic applications, and for identifying to drug response or susceptibility to disease. DAXX proteins may be used the DAXX genetic variation and a trait such as the DAXX proteins may be used the DAXX genetic variation and a trait such as the DAXX proteins.

Gaps 0, Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels Seguence 15 BP; 1 A; 0 C; 10 G; 4 T; 0 U; 0 Other;

1257 CCCCAACCCCTTC 1270

CACCAACCCCCTAC 2

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-like Growth Factor [1679]-1 receptor, 1978 binding protein [16789]-2 or 167893), which is capable of inhibiting or reducing prowth factor mediated cell proliferation.

In consideration and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectide which can be used to design the antisense oligonuclectide with a method is useful for ameliorating the effects of psoriasis, conthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, karacoais, conthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, karacoais, conthyosis, pityriasis, warts, benign growths, cancers of the skin, a phyperneovascular condition such as a neovascular condition of the skin, a brian or skin, growth factor-mediated malignancies, other sclerotic condition of the inside of blood
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                                                                                                                             Antisense therapy, antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide, ophthalmological; keloid; shi discorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatoosis, neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neobascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) trearment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MURD-) MURDOCH CHILDRENS RES INST.
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AAF46518 standard; DNA; 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-JUN-1999;
                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
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ID AAF46
XX
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GFBP3 oligonucleotide #180.

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Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; insulin-like Growth Factor. I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neobascular condition; hyperplasia; kidney disease;
                                  IGFBP2 oligonucleotide #1357.
                  (first entry)
                                                                                                                                        Homo sapiens.
                  30-MAR-2001
AAF46518;
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WO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693

99US-0140345P. 21-JUN-1999; (MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; CJ, Werther GA, Wraight

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

Example 7; Page 45; 201pp; English.

Example 6; Page 42; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticonters. The method comprises contacting the skin with an anticonters. Glogonucleotide, [for Insulin-like Growth Factor Insell.]

Treceptor, IGF binding protein [IGFB9]-2 or IGFB93), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, cothyposis, pityriasis, ruba, pilaris, serborthoea, keloids, keratosis, noplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, chean or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood consequence.

Sequence 15 BP; 2 A; 0 C; 10 G; 3 T; 0 U; 0 Other;

Gaps ch 0.5%; Score 10.8; DB 1; Length 15; I Similarity 85.7%; Pred. No. 9e+02; 12; Conservative 0; Mismatches 2; Indels Query Match Best Local S Best Loc Matches

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AAF46760 standard; DNA; 15

(first entry) 30-MAR-2001 AAF46760; RESULT 1619
AAF46760/C
ID AAF46760
XX
AC AAF46760
XX
XX
XX
XX
XX
XX
XX
XX
XX

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation. Antisense therapy, antiproliferative, antinflammatory, antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neobascular condition; the retina; ss. Edmondson (MURD-) MURDOCH CHILDRENS RES INST. 21-JUN-1999; 99US-0140345P. 21-JUN-2000; 2000WO-AU000693 Wnaight CJ, Werther GA, WPI; 2001-041421/05. WO20007B341-A1. Homo sapiens. 28-DEC-2000.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleoride, (for Insulin-like Growth Factor [IGR]-1 receptor, IGF binding protein [for Insulin-like Growth Factor [IGR]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide which can is useful for ameliorating the effects of psoriasis, inthyosis, pityriasis, ruba, pitaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, branch or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperplasia

Sequence 15 BP; 0 A; 4 C; 9 G; 2 T; 0 U; 0 Other;

0; Gaps Query Match
0.5%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches 2; Indels

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à d 624/c AAF47624 standard; DNA; 15 30-MAR-2001 (first entry) AAF47624;

RESULT ,1620 AAF47624/c

IGFBP3 oligonucleotide #1044.

Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;

hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisorders. The method comprises contacting the skin with an antisorse oligonucleoride, (for Insulin-like Growth Factor [167]-1 receptor, ISP binding protein [IGPBP]-2 or IGPBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, oligonucleoride which can be used to design the antisense oligonucleoride which can be used to design the antisense oligonucleoride of the present invention (see AAP45151 and AAP45153-F45161). The method is useful for ameliorating the effects of psoriasis, richthyosis, pityriasis, ruba, pilaris serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, drain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperplasia
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skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                                               Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15 BP; 6 A; 4 C; 4 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                    Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 7; Page 50; 201pp; English.
                                                                                                                                                                                                                                                                   (MURD-) MURDOCH CHILDRENS RES INST.
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                                                                                                                                                                                                        21-JUN-2000; 2000WO-AU000693.
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                                                                                                                                                                                                                                                                                                    Wraight CJ, Werther GA,
                                                                                                                                                                                                                                                                                                                                WPI; 2001-041421/05.
                                                                                                                                          40200078341-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                 inflammation.
                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                      21-JUN-1999;
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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

Edmondson SR;

Werther GA,

S,

Wraight

WPI; 2001-041421/05.

inflammation.

(MURD-) MURDOCH CHILDRENS RES INST.

99US-0140345F.

21-JUN-1999;

21-JUN-2000; 2000WO-AU000693.

WO200078341-A1

28-DEC-2000.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis; kidney disease; neobascular condition; hyperplasis; kidney disease;
                                                    The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF] receptor, IGF binding protein [IGFBP] to IGFBP3), which is capable inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4151 and AAF45153-6150nucleotides of the present invention growths, cancers of the skin, a hyperance ondition such as a necessor such skin, a prowth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 BP; 4 A; 1 C; 5 G; 5 T; 0 U; 0 Other;
Example 8; Page 93; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAF53970 standard; DNA; 15 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 85.7
ses 12; Conservative
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The present invention relates to a method for ameliorating the effects of skin discoders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGR]) receptor, IGF binding protein [IGRBP]-2 or IGFBB3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-Glounthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, inhthyosis, pityriasis, una, plaris, serborrhoea, keloids, keratosis, inhthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other scleroic
                                                                                                                                                                                                                                                                          Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                         Edmondson SR;
                                                                                                                                                               (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                        Example 8; Page 93; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vessels or any other hyperplasia
                                                                                                                             99US-0140345P.
                                                                                       21-JUN-2000; 2000WO-AU000693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1118 TGCCCAGTTCCACC 1131
                                                                                                                                                                                                       Werther GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGTCCAGTTCCCCC
                                                                                                                                                                                                                                          WPI; 2001-041421/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                 WO200078341-AI.
                                                                                                                                                                                                                                                                                                                                    inflammation.
                                                                                                                             21-JUN-1999;
                                                                                                                                                                                                       Wraight CJ,
                                                   28-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13
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0; Gaps 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 1ive 0; Mismatches 2; Indels Sequence 15 BP; 4 A; 2 C; 7 G; 2 T; 0 U; 0 Other;

30-MAR-2001

IGFBP2 oligonucleotide #1327.

(first entry)

Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic, cytostatic; dermatological; cardiant; virucide, ophthalmological; keloid, skin discorder; Insulin-like Growth Factor I receptor; IGF1.; pityliasis; IGF binding protein; IGF8P-2; IGF8P3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis; kidney disease; neoblation of the retna; ss.

WO200078341-A1

21-JUN-2000; 2000WO-AU000693

99US-0140345P 21-JUN-1999;

Wraight CJ, Werther GA,

WPI; 2001-041421/05

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

skin disorders. The method corpuses contracting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide so it he present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, ichthyosis, pityriasis, varts, benign growths, canners of the skin, a hyperneovasular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic uses of the skin, and is a second to the retina, brain or skin, growth factor-mediated malignancies of the sclerotic uses of the skin, and the skin, a second the skin, and the skin, a second the skin, and second the skin second th The present invention relates to a method for ameliorating the effects of

Seguence 15 BP; 0 A; 1 C; 10 G; 4 T; 0 U; 0 Other;

Gaps ö h 0.5%; Score 10.8; DB 1; Length 15; Similarity 85.7%; Pred. No. 96+02; 12; Conservative 0; Mismatches 2; Indels Ouery Match Best Local Similarity 85.77 Matches 12, Conservative

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~ 15 ccgaccacaacccc Q ò

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AAF47175 standard; DNA; 15 AAF47175; RESULT 1624 AAF47175

(first entry) 30-MAR-2001

IGFBP3 oligonucleotide #595

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin discorder, Insulin-like Growth Pactor I receptor, IGF-1; pityriasis; IGF binding protein, IGFB-2; IGFBP3; inflammation, psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborthoea; ruba; keatoosis, neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

Homo sapiens.

WO200078341-A1. 28-DEC-2000. 21-JUN-2000; 2000WO-AU000693

21-JUN-1999; 99US-0140345P

(MURD-) MURDOCH CHILDRENS

Edmondson SR;

inflammation.

Example 6; Page 42; 201pp; English.

vessels or any other hyperplasia

1247 CCGACCCCATCCCC 1260

RESULT 1623

ВЪ. AAF46488 standard; DNA; 15

AAF46488;

Homo sapiens

28~DEC-2000.

Edmondson SR;

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering V (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
       (MURD-) MURDOCH CHILDRENS RES INST
                                                                                                     Example 7; Page 48; 201pp; English.
                         Wraight CJ, Werther GA,
                                         WPI; 2001-041421/05
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [167]) receptor, 167 binding protein [16828]-2 or 167839; which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4151 and AAF45153-F45161). The method is useful for ameliocating the effects of psoriasis, ichthyosis, pityriasis, ruba, pliaris, serborrhoea, keloids, keratosis, hyperneovascular condition such as a neovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic vessel or and a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic vessel or a new order of the inside of blood disease, kidney disease, nyperplasia vessels or any other hyperplasia

Sequence 15 BP; 3 A; 8 C; 1 G; 3 T; 0 U; 0 Other;

0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ve 0; Mismatches 2; Indels 1 Similarity 85.7%; 12; Conservative Query Match Local Matches

1118 TGCCCAGTTCCACC 1131 receaserrecace 14 ò

AAF50794 standard; DNA; 15 (first entry) 30-MAR-2001 AAF50794; RESULT 1625 AAF50794/

ВЪ

IGF-I oligonucleotide #1754.

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, vytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGP-1, pityriasis; IGF binding protein, IGFBP-2, IGFBP3, inflammation, psoriasis; pilaris, growth factor mediated cell proliferation, ichthyosis, serborrhoea, ruba, keratosis, neoplasia, scleroderma, wart, skin cancer, sclerotic disease, hyperneovascular condition, hyperplasis, kidney disease, neovascular condition, hyperplasis, kidney disease,

Homo sapiens.

WO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Werther GA, Wraight CJ,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 8; Page 72; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-like Growth Factor [IGR]-1 ceceptor, IGF binding protein [IGFB]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectides of the present invention (see AAP45151 and AAP45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborthoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood tessels or any other hyperplasia

Sequence 15 BP; 3 A; 4 C; 6 G; 2 T; 0 U; 0 Other;

Gaps ·. Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels

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Gaps .; 0

AAF45866 standard; DNA; 15 RESULT 1626 AAF45866

AAF45866;

30-MAR-2001 (first entry)

IGFBP2 oligonucleotide #705.

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic; dermatological; cardiant, virucide, ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein, IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis, neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis, kidney disease; neovascular condition; hyperplasis, kidney disease;

Homo sapiens.

WO200078341-A1

28-DEC-2000

21-JUN-2000; 2000WO-AU000693.

21-JUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Werther GA, Wraight CJ,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering

Example 6; Page 42; 201pp; English.

an antisense nucleic acid that cell proliferation and/or

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligomucleoride, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligomucleotide which can be used to design the antisense oligomucleotide which can be used to design the effects of psoriasis, chipyosis, pityriasis, ruba, pilaris, serbornhoea, keloids, keratosis, neoplasias, soletoderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidhey disease, hyperpoliferation of the inside of blood vessels or any other hyperplasia
  inhibits or reduces growth factor mediated inflammation.
                                                                                                  Example 6; Page 38; 201pp; English.
(ultra-violet) treatment
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Sequence 15 BP; 5 A; 3 C; 5 G; 2 T; 0 U; 0 Other;

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Gaps
                         .
 Score 10.8; DB 1; Length 15; Pred. No. 9e+02; 0; Mismatches 2; Indels
                       2; Indels
0.5%;
                       12; Conservative
            Local Similarity
 Query Match
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862 AAGGGCACTGAGGA 875 AAGGTCACTGAGCA 15 à

AAF46392 standard; DNA; 15 30-MAR-2001 AAF46392; 1627 **AAF46392**

ВР.

IGFBP2 oligonucleotide #1231. (first entry)

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scaleroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplama; xidney disease; neoblation of the retina; ss.

Homo sapiens.

WO200078341-A1.

28-DEC-2000

21-JUN-2000; 2000WO-AU000693

(MURD-) MURDOCH CHILDRENS RES INST. 99US-0140345P 21-JUN-1999;

Edmondson SR; Wraight CJ, Werther GA,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or infiammation.

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGR]-1 receptor, IGF binding protein [IGRB]-2 or IGRBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the affects of psoriasis, P45161). The method is useful for ameliorating the effects of psoriasis, nechthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
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\overset{\mathsf{M}}{\mathsf{X}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}\overset{\mathsf{M}}\overset{\mathsf{M}}{\mathsf{M}}\overset{\mathsf{M}}\overset{\mathsf{M}}}\overset{\mathsf{M}}\ov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Gaps
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Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                   BP.
                                                                                                                                                                                                                                                                                                          IGFBP3 oligonucleotide #204.
                                                                        762 TGCAGGTTTCTTTC 775
                                                                                                                                                                                                 AAF46784 standard; DNA; 15
                                                                                                                                                                                                                                                                        (first entry)
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Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid; skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein, IGFBP-2; IGFBP3; inflammation, psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neobascular condition; the retina; ss.

Homo sapiens.

WO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693.

(MURD-) MURDOCH CHILDRENS RES INST. 99US-0140345P. 21-JUL-1999;

Edmondson SR; Werther GA, Wraight CJ,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 7; Page 45; 201pp; English.

effects of The present invention relates to a method for ameliorating the efskin disorders. The method comprises contacting the skin with an schultz451-1.rng

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Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein, IGFBP-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasis, kidney disease; neoblation of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGR]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFB3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see ARF45131 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other selerotic disease, kidney disease, hyperproliferation of the inside of blood
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                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 0 A; 4 C; 8 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 7; Page 48; 201pp; English.
                                                                                                                                                                                                                                                                  vessels or any other hyperplasia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-JUN-2000; 2000WO-AU000693
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                                                                                                                                                                                                                                                                                                                                                                                                                                         1104 GGGCTTCAGTCCCG 1117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GFBP3 oligonucleotide #594.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF47174 standard; DNA; 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF47174;
                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1629
                                                                                                                                                                                                                                                                                                                                                                         Best Loca
Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antisense therapy, antiproliferative, antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virtucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; sclerofarma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease;
oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153 - p45161). The method is useful for ameliotrating the effects of psoriasis, ichthyosis, pityriasis, tuba, pilaris, serborthoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, tidney disease, hyperproliferation of the inside of blood
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                                                                                                                                                                                                                                                             0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 1ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                    Sequence 15 BP; 4 A; 7 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       neovascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Edmondson SR;
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                                                                                                                                                                              vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF50567 standard; DNA; 15 BP.
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                                                                                                                                                                                                                                                                                                                                                   1118 TGCCCAGTTCCACC 1131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IGF-I oligonucleotide #1527.
                                                                                                                                                                                                                                                                                                                                                                                         receaserrecace 15
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                                                                                                                                                                                                                                                                                     Local Similarity 85.7
les 12; Conservative
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                                                                                                                                                                                                                                                                 Query Match
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Matches
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neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperpoliferation of the inside of blood vessels or any other hyperplasia

Sequence 15 BP; 4 A; 0 C; 5 G; 6 T; 0 U; 0 Other;

vessels or any other hyperplasia

SXS

Sequence 15 BP; 3 A; 8 C; 0 G; 4 T; 0 U; 0 Other;

0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels 1132 TTCACCTCCAGCTC 1145 TTCACCTCCACCAC 15 Query Match
Best Local Similarity 85.7
Matches 12; Conservative δ

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0; Gaps

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AAF53963 standard; DNA; 15 1631 AAF53962 RESULT

AAF53963;

30-MAR-2001 (first entry)

IGF-I oligonucleotide #4923.

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein, IGFBP-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neoplasic, condition; hyperplasia; kidney disease;

Homo sapiens.

WO200078341-A1.

28-DEC-2000,

21-JUN-2000; 2000WO-AU000693

99US-0140345P. 21-JUN-1999; (MURD-) MURDOCH CHILDRENS RES INST.

Wraight CJ, Werther GA,

Edmondson SR;

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 6; Page 38; 201pp; English.

Example 8; Page 93; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antidomorphy contacting the skin with an antidomorphy (for Insulin-like Growth Pactor [IGR]-1 receptor, IGF binding protein [IGRBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligomorphic or other disorders. The present sequence is an oligomorphic and parts of the present invention (see AAF45151 and AAF45153-F4511). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serbornhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hopping such as neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood

The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-P45161). The method is useful for ameliorating the effects of psoriasis, inchyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperpoliferation of the inside of blood

Sequence 15 BP; 5 A; 3 C; 5 G; 2 T; 0 U; 0 Other;

vessels or any other hyperplasia

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                           Gaps
                           .
                           Indels
  Length
  DB 1;
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Query Match
0.5%; Score 10.8; DB 1
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Edmondson SR;
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                                                                                                                                           BP.
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                                                    991 ATTGTTTGTGGGAA 1004
                                                                                                                                                                                                                     GFBP2 oligonucleotide #706
                                                                                                                                           AAF45867 standard; DNA; 15
                                                                          2 ATTATTTGGGGGAA 15
                                                                                                                                                                                           30-MAR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Wraight CJ, Werther GA,
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                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-JUN-1999;
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                                                                                                                                                                   AAF45867;
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1279 GAGGACAGCGCCCA 1292

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                                                                                                                                                                                                                                                                                                                                                              Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding procein, IGFBP-2; IGFBP3; inflammation, psoriasis, pilatis, growth factor mediated cell proliferation, ichthyosis, serborrhoea; ruba, keratosis, neoplasia, scleroderma, wart, skin cancer; sclerotic disease, hypermeovascular condition, hyperplasis, kidney disease; neoblation of the retna, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                        Gaps
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0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
iive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 15 BP; 5 A; 6 C; 4 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.5%; Score 10.8; E
85.7%; Pred. No. 9e+C
ive 0; Mismatches
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                                                                                                                                                                                                            BP.
                                                                                                                                                                                                                                                                                                                             IGFBP3 oligonucleotide #1253.
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                                                                         862 AAGGGCACTGAGGA 875
                                                                                                                                                                                                            AAF47833 standard; DNA; 15
                                                                                                              1 AAGGTCACTGAGCA 14
                                                                                                                                                                                                                                                                                        (first entry)
                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wraight CJ, Werther GA,
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                    Best Local Similarity
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                                      12;
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  Query Match
                                      Matches
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antibarane oligomolecuted, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, configuration or the present sequence is an oligomolecuted which can be used to design the antisense oligomolecutes of the present invention (see AAF45151 and AAF45153-CF 45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serbornhoea, keloids, keratosis, cohthyosis, soleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic condition where the property of the inside of blood
                                                                                                                                                                                                                                                      Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid; sth discorder; insulin-like Growth Factor I receptor; IGF-1, pityriasis; IGF binding protein, IGFBP-2, IGFBP3, inflammation, psoriasis; pilaris; growth factor mediated cell proliferation, ichthyosis; serborrhoea; ruba, keratosis; neoplasia; scleroderma, wart, skin cancer; sclerotic disease; hyperneovascular condition, hyperplasia, kidney disease; neovascular condition, hyperplasia, kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ameliorating the effects of a disorder, e.g. psoriasis, by administering by (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
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85.7%; Pred. No. 9e+02;
Live 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Edmondson SR;
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                                                                                                   AAF49379 standard; DNA; 15
                                                                                                                                                                                                                          IGF-I oligonucleotide #339.
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14
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Matches 12; Conservative
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  1 GAGCACACCACCCA
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                                                                                                                                            AAF49379;
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                                                            RESULT 1634
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Gaps

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2; Indels

Conservative

Local Similarity es 12; Conserv

Best Loca Matches

(first entry)

30-MAR-2001

AAF49115;

IGF-I oligonucleotide #75

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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                                                                                                                                                                                                                                                                                                                                                                        Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-1ke Growth Factor I receptor; IGF-1; pityriasis, IGF binding procein, IGFBF-2; IGFBF3; inflammation, psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, keratosis; neoplasia; scleroderma, wart, skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia, kidney disease; neoblasia, condition; hyperplasia, kidney disease;
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                                                                    AAF47077 standard; DNA; 15 BP.
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                                                                                                                                                 AAF47077;
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RESULT 1635
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ameliorating the effects of a disorder, e.g. psoriasis, by administering V (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
                                                                                                                                              cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFB-2; IGFB93; inflammation; postiasis; pityriasis; growth factor mediated cell prolliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease;
                                                                                                                                 antiproliferative; antiinflammatory; antipsoriatic;
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85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                   neovascular condition of the retina; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Edmondson SR;
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                                                                                                                                                                                                                                                                                                          Homo sapiens.
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticontering in the present electron. (For Insulin-like Growth Factor [166]-1 receptor, IGF binding protein [1678]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, or inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide is useful for ameliorating the effects of psoriasis, rithyosis, pityriasis, ruba, planis, serborrhoea, keloids, keracosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, chain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood cossels or any other hyperplasia
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cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; lisulin-like Growth Factor I receptor; IGF-1; pityriaais; IGF binding protein; IGFB-2; IGFBP3; inflammation; psoriaais; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplaais; kidney disease; neovascular condition; hyperplaais; kidney disease;
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nes 12; Conserv
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                                                                               Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological; keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding procein, IGFB-2; IGFBB3; inflammation, psoriasis, pilaris, growth factor mediated cell proliferation, ichthyosis; serborrhoea; ruba, keratosis; neoplasia; scleroderma, wart; skin cancer; sclerotic disease; hypermeovascular condition, hyperplama; kidney disease; neoblation of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Edmondson SR;
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                                   oligonucleotide #3137.
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                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inflammation
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Best Local S
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Gaps

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δ g schultz451-1.rng

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the attisma AAF45153- F45161). The method is useful for ameliorating the effects of psoriasis, inchipyosis, pityriasis, ruba, plaris, serborrhoea, keloids keratosis, neoplasias, soleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, the brian growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
  skin cancer; sclerotic disease;
kidney disease;
keratosis, neoplasia, scleroderma, wart, hyperneovascular condition, hyperplasia, neovascular condition of the retina, ss.
                                                                                                                                                                                                                                                                                                                                                                      Wraight CJ, Werther GA, Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 8; Page 61; 201pp; English.
                                                                                                                                                                                                                                                                                                                          (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                              99US-0140345P.
                                                                                                                                                                                                                               21-JUN-2000; 2000WO-AU000693
                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-041421/05.
                                                                                                                                       WO200078341-A1.
                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                           21-JUN-1999;
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Gaps
                                              0;
Match 0.5%; Score 10.8; DB 1; Length 15; Local Similarity 85.7%; Pred. No. 9e+02; Local 12; Conservative 0; Mismatches 2; Indels
      Query Match
                                              Matches
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Sequence 15 BP; 1 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

1183 CCCCCCAGAGAGT 1196 14 CCCCACAGCGAGGT 1 ò

AAF49421 AAF49421

RESULT 1640

standard; DNA; 15

ВР.

AAF49421;

IGF-I oligonucleotide #381.

30-MAR-2001 (first entry)

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding protein, IGFBP-2, IGFBP3, inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neovascular condition; freina; ss.

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [108]-1 receptor, IGF binding protein [108P]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, of inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the attisense oligonucleotide is useful for ameliorating the effects of psoriasis, F45161). The method is useful for ameliorating the effects of psoriasis, chthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, noplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood to sessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                               Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 4 A; 7 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                 Edmondson SR;
                                                                                                                                                                                                          (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 8; Page 63; 201pp; English.
                                                                                                                       21-JUN-2000; 2000WO-AU000693
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
Best Local Similarity 85.77
Matches 12; Conservative
                                                                                                                                                                                                                                               Werther GA,
                                                                                                                                                                                                                                                                                       WPI; 2001-041421/05
                                     WO200078341-A1.
                                                                                                                                                                                                                                                                                                                                                                                                inflammation.
  Homo sapiens
                                                                                                                                                               21-JUN-1999;
                                                                                                                                                                                                                                               Wraight CJ,
                                                                               28-DEC-2000
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RESULT 1641 AAF53514

1 CTACAACTACGCCC 14

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ВЪ

AAF53514 standard; DNA; 15

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IGF-I oligonucleotide #4474. (first entry) 30-MAR-2001 AAF53514;

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological; cardiant, virucide, ophthalmological; keloid; skin disorder, insulin-like Growth Factor. I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keardosis; neophasia; sclaroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

Homo sapiens

WO200078341-A1

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                  (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                Example 8; Page 90; 201pp; English.
                 21-JUN-2000; 2000WO-AU000693
                                 99US-0140345P
                                                                   Wraight CJ, Werther GA,
                                                                                    WPI; 2001-041421/05
                                 21-JUN-1999;
                                                                                                                               inflammation
28-DEC-2000
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The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense oligomucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligomucleotide which can be used to design the antisense oligomucleotides of the present invention (see AAF45151 and AAF45151 olifothyosis, pityriasis, ruba, pliaris, serborrhoea, Keloids, keratosis, inchthyosis, pityriasis, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood Sequence 15 BP; 0 A; 7 C; 0 G; 8 T; 0 U; 0 Other; vessels or any other hyperplasia

Gaps . 0 Score 10.8; DB 1; Length 15; Pred. No. 9e+02; 0; Mismatches 2; Indels 0 0.5%; Query Match
Best Local Similarity 85.7
Matches 12; Conservative

927 TTTATCCTCTCT 940 rrrcrcrcrcrcr 15 d ò

514/c AAF53514 standard; DNA; 15 BP. (first entry) 30-MAR-2001 AAF53514; RESULT 1642 AAF53514/

IGF-I oligonucleotide #4474.

Antisense therapy, antiproliferative; antinflammatory, antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; kearsosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis; kidney disease; neobascular condition; hyperplasis.

Homo sapiens

WO200078341-A1

28-DEC-2000.

21-JJN-2000; 2000WO-AU000693

99US-0140345P. 21rJUN-1999;

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Werther GA, Wraight CJ,

WPI; 2001-041421/05.

Edmondson SR;

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 8; Page 90; 201pp; English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticonders. The method comprises contacting the skin with an acceptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation.

CC inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectide which can be used to design the antisense oligonuclectide which can be used to design the antisense oligonuclectide which can be used to mention (see AAF45151 and AAF45133-CC ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a neoplasias, scleroderma, warts, benign growths, cancers of the kin, a hypernecvascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood customers.

Sequence 15 BP; 0 A; 7 C; 0 G; 8 T; 0 U; 0 Other;

Gaps ö Score 10.8; DB 1; Length 15; Pred. No. 9e+02; 0; Mismatches 2; Indels 0.5%; Query Match
Best Local Similarity 85.7
Matches 12; Conservative

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AAF53515 standard; DNA; 15 BP. (first entry) 30-MAR-2001 AAF53515;

IGF-I oligonucleotide #4475.

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic; cytostatic; dermatological, cardiant, virucide, ophthalmological, keloid; skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pitaris, growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; kearsosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis, kidney disease; neovascular condition of the retina; ss. AAF53515
XX
AC AAF53515
AC AAF53515
AC AAF53515
DT 30-MAR-2
XX
XX
XX
XX
XX
Antisens
KW Antisens
KW Grootel
KW Grootel
KW How Din
KW

Homo sapiens.

WO200078341-A1.

28-DEC-2000

21-JUN-2000; 2000WO-AU000693

99US-0140345P. 21-JUN-1999; (MURD-) MURDOCH CHILDRENS RES INST

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Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; opthhalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborinoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis; kidney disease; neoblation of the retina; ss.
                                                                                                                                                                                                              The present invention relates to a method for ameliorating the effects of skin discorders. The method comprises contacting the skin with an antisense oligomucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFB]-2 or IGFBD3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligomucleotide which can be used to design the antisense oligomucleotide wich can be used to design the antisense oligomucleotides of the present invention (see AAF4151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, Keloids, Keratosis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, Keloids, Keratosis, hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, hyperproliferation of the inside of blood
                                                                          Amelicrating the effects of a disorder, e.g. psoriasis, by administering by (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 0 A; 7 C; 0 G; 8 T; 0 U; 0 Other;
Edmondson SR;
                                                                                                                                                                            Example 8; Page 90; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vessels or any other hyperplasia
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Wraight CJ, Werther GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity 85.7
Matches 12, Conservative
                                    WPI; 2001-041421/05
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Edmondson SR;

Wraight CJ, Werther GA,

WPI; 2001-041421/05

(MURD-) MURDOCH CHILDRENS RES INST.

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Gaps . 0

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, or inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can for ameliorating the effects of psoriasis, F45161). The method is useful for ameliorating the effects of psoriasis, index, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, the brain or skin, growth factor—mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor. I receptor; IGF-1; pityrissis; IGF binding protein; IGFB-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keatosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplesia; kidney disease; neobascular condition of the retina; ss.
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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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                                                                                                       Example 7; Page 45; 201pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        85.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-041421/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 12; Conserv
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                                                               inflammation.
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30-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                         AAF50111;
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Best Local S
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                                                                                                                                                                                                                                                        Matches
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                                                                                                                                                                                                                                                                                                          셤
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                                 The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGP]) receptor; IGF binding protein [IGFBP] 2 or IGFBPB), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present equence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pliaris, serborrhoea, keloids, keratosis, ineoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic vessels or any other hyperproliferation of the inside of blood
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              Example 7; Page 50; 201pp; English
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Best Local Similarity 85.7
Matches 12; Conservative
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akin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFB]-3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, hyperneovascular condition such as a neovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic
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Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein, IGFBF-2; GFBP3; inflammation, psoriasis; growth factor mediated cell proliferation, ichthyosis; serborrhoea; ruba, keratosis, neoplasia; scleroderma, wart, skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; necovascular condition, the retina; ss.
                  oligonucleotide which can be used to design the antienne oligonucleotides of the present invention (see AAF45151 and AAF45153 and oligonucleotides of the present invention (see AAF45151 and par45153 and oligonucleotides of the method is useful for ameliotating the effects of psoriasis, ichthyosis, pityriasis, ruba, planie, serborrhoea, Keloids, keratosis, heoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
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inflammation and/or other disorders. The
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ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperpoliferation of the inside of blood vessels or any other hyperplasia
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticonse oligomucleotide, (for Insulin-like Growth Factor [168]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligomucleotide which can be used to design the antisense oligomucleotide which can be used to design the affects of psoriasis, F45161). The method is useful for ameliorating the effects of psoriasis, cichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, cheases, kidney disease, hyperproliferation of the inside of blood to sessels or any other hyperplasia
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                                                                                                                                                                                                                                                              Gaps
disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                   Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15 BP; 2 A; 4 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                               Sequence 15 BP; 4 A; 8 C; 2 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Edmondson SR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF50792 standard; DNA; 15 BP.
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                                                                                                                                                                                                                                                                                                                                      1084 CCAGGCTTCACCCC 1097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IGF-I oligonucleotide #1752.
                                                                                                                                                                                                                                                                                                                                                                                                             ccadecracacae 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-JUL-1399;
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XX AAF5
XX A
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                                                                                                                                                                                                                                                                                                                                                                                 Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFB-2; IGFBP3; inflammation; psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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                                       Gaps
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9e+02;
0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
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0.5%; Score 10.8; E
Best Local Similarity 65.7%; Pred. No. 9e+0
Matches 12; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Edmondson SR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 6; Page 42; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                 IGFBP2 oligonucleotide #1230.
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                                                                                  1102 CTGGGCTTCAGTCC 1115
                                                                                                                                                                                                                             AAF46391 standard; DNA; 15
                                                                                                                                                                                                                                                                                                            (first entry)
                                           Conservative
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                          Similarity
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                                         12;
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                                                                                                                                                                                                                                                                     AAF46391;
      Query Match
Best Local
                                                                                                                                                                                    RESULT 1651
                                           Matches
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cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease;

21-JUN-2000; 2000WO-AU000693.

WO200078341-A1.

Ношо

28-DEC-2000.

99US-0140345P.

21-JUN-1999;

antiproliferative; antiinflammatory; antipsoriatic;

IGF-I oligonucleotide #336.

Antisense therapy;

(first entry)

30-MAR-2001 AAF49376;

BP.

AAF49376 standard; DNA; 15

RESULT 1653 AAF49376

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Antisense therapy, antiproliferative; antiinflammatory, antipsoriatic, cytostatic, dermatological; cardiant, virucide, ophthalmological; Keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein, IGFBP-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scaleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia, kidney disease; neovascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to a method for ameliorating the effects of antisense oligonucleotide, (for Insulin-like Growth Factor [IGF] an receptor, IGF binding protein [IGFBP] - 2 or IGFBP3), which is capable inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45151 etchthyosis, pityriasis, ruba, planis, serborrhoea, keloids, keratosis, ichthyosis, pityriasis, ruba, planis, serborrhoea, keloids, keratosis, heppinasias, sclercderna, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred; No. 9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Edmondson SR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (MURD-) MURDOCH CHILDRENS RES INST.
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                                                                                                                                                                                                                                                               IGFBP3 oligonucleotide #176.
762 TGCAGGTTTCTTTC 775
                                                                                                                                        AAF46756 standard; DNA; 15
                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                      30-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammation
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                                    15
                                                                                                                                                                                 AAF46756;
                                                                                               RESULT 1652
                                                                                                                       AAF46756,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 15 BP; 4 A; 7 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                   (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 8; Page 63; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           vessels or any other hyperplasia
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Best Local Similarity 85.7
Matches 12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Werther
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RESULT 1654 AAF53878/c

Gaps

Indels

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0; Mismatches

1236 AGCCCTCGCCTCCG 1249

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15

12; Conservative

Matches

Local Similarity

(first entry)

30-MAR-2001

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin discorder, Insulin-like Growth Factor I receptor; IGF-1, pityriasis; IGF binding proctein, IGFBP-2, IGFBP3, inflammation, psoriasis, pilatis, growth factor mediated cell proliferation, ichthyosis, serborrhoea, ruba, keatosis, neoplasia, scleroderma, wart, skin cancer; sclerotic disease, hyperneovascular condition, hyperplais, kidney disease, neovascular condition, hyperplais, kidney disease,
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                                                                                                                                                                                                                                                                                                                                                 (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 8; Page 92; 201pp; English.
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                                                                          GF-I oligonucleotide #4838
 AAF53878 standard; DNA; 15
                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                          Wraight CJ, Werther GA,
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                                                                                                                                                                                                                                              WO200078341-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     inflammation.
                                                 30-MAR-2001
                                                                                                                                                                                                                       Homo sapiens
                          AAF53878;
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The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense Oligonucleotide, (for Insulin-like Growth Factor [IGF] receptor, IGF binding protein [IGFBP] - or IGFBPB), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 oligonucleotides of the present invention (see AAF45151 and AAF45153 olichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovacular condition ouch as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, hyperproliferation of the inside of blood Sequence 15 BP; 3 A; 7 C; 3 G; 2 T; 0 U; 0 Other; vessels or any other hyperplasia

Gaps Score 10.8; DB 1; Length 15; Pred. No. 9e+02; 0; Mismatches 2; Indels .; 0 Query Match
Best Local Similarity 85.7%;
Matches 12; Conservative

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787 GAGIGIGICICCIG 800
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AAF46489 standard; DNA; 15 AAF46489 RESULT 1655 AAF46489, 印数だは

BP.

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                          Antisense therapy, antiproliferative, antiinflammatory; antipsoriatic; cytostatic, dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichhyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderme; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis, kidney disease; neovascular condition; hyperplasis, kidney disease;
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                                                                                                                                                                                                                                                                                              (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                        99US-0140345P.
                       IGFBP2 oligonucleotide #1328.
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                                                                                                                                                                                                                                                                                                                          Werther GA,
                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-041421/05.
                                                                                                                                                                                            WO200078341-A1.
                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                        21-JUN-1999;
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Example 6; Page 42; 201pp; English

inflammation.

contributing or reducting comprises contacting the skin with an antisease oligonuclectide, (for Insulin-like Growth Factor [IGF]-1 antisease oligonuclectide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBR3), which is capable of inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisease oligonuclectides of the present invention (see AAF45153- F45161). The method is useful for ameliorating the effects of psoriasis, inhybeis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hoperprise of the inside of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood or was seased to be a sease of the state of the sease of the state of the sease of the state of the state of the sease of the sease of the state of the state of the sease of the sease of the state of the sease of the seas The present invention relates to a method for ameliorating the effects of

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                                        0.5%; Score 10.8; DB 1; Length 15; S5.7%; Pred. No. 9e+02; ve 0; Mismatches 2; Indels
Sequence 15 BP; 0 A; 1 C; 10 G; 4 T; 0 U; 0 Other;
                                                              85.7%;
                                          Query Match
Best Local Similarity 85.73
Matches 12; Conservative
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Gaps

AAF50110 standard; DNA; 15 RESULT 1656 AAFSO110/G
ID AAFSO
XX
AC AAFSO
XX
DT 30-W
XX
XX
XX
XX
XX
XX
XX
XX

1247 CCGACCCCATCCCC 1260

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30-MAR-2001

AAF50110;

IGF-I oligonucleotide #1070

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The present invention relates to a method for ameliorating the effects of antisense chizotærs. The method comprises contacting the skin with an antisense chigonucleotide, (for Insulin-like Growth Factor [IGF] receptor, IGF binding protein [IGFBP] - 2 or IGFBP3), which is capable inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45151). P45161). The method is useful for ameliotating the effects of psoriasis, ichthyosis, pityriasis, ruba, pitaris, serborrhoea, Keloids, keratosis, hyperneovascular condition such as a necvascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein, IGFBP-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, keratosis; neoplasia; scleroderma, wart; skin cancer; sclerotic disease; hypermeovascular condition, hyperpleas, kidney disease; neoblarion of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                      (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 8; Page 67; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                               99US-0140345P.
                                                                                                                                                                                                                                                                                                                                   21-JUN-2000; 2000WO-AU000693
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inflammation.
                                                                                                                                                                                                        Homo sapiens.
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ö Gaps .. 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels 12; Conservative Similarity Query Match Local Matches

Sequence 15 BP; 2 A; 3 C; 2 G; 8 T; 0 U; 0 Other;

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Gaps °;

0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ive 0; Mismatches 2; Indels

1064 ACCCAAGCTTCAGT 1077

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Best Local Similarity 85.7 Matches 12, Conservative

Query Match

1 AccaArcerrcagr 14

Sequence 15 BP; 4 A; 4 C; 2 G; 5 T; 0 U; 0 Other;

RESULT 1657

AAF52179 standard; DNA; 15 BP.

RESULT 1658 AAF52179, IGF-I oligonucleotide #3139.

30-MAR-2001 (first entry)

AAF52179;

IGF-I oligonucleotide #1861. AAF50901 standard; DNA; 15 (first entry) 30-MAR-2001. AAF50901;

ВР

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virtucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;

Antisense therapy, antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological, cardiant; virucide; ophthalmological, keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein; IGFB-2; IGFBF3; inflammation; psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; kearcosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticopacification in the form of Growth Factor [168]-1 receptor, 1GF binding protein [16FBP]-2 or 1GFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, or inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectide is useful for ameliorating the effects of psoriasis. F45161). The method is useful for ameliorating the effects of psoriasis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hypernecvascular condition such as a neovascular condition of the retina, the brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperplasia Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation. growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss. Edmondson SR; (MURD-) MURDOCH CHILDRENS RES INST. Example 8; Page 73; 201pp; English. 21-JUN-2000; 2000WO-AU000693. Wraight CJ, Werther GA, WPI; 2001-041421/05. WO200078341-A1. 21-JUN-1999; 28-DEC-2000. Homo sapiens

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligomuclecide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligomuclectide which can be used to design the antisense oligomuclectides of the present invention (see AAF$5151 and AAF$5153-$45161. The method is useful for ameliotrating the effects of psoriasis, inthhyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovacular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperprovacular condition of the retina, disease, hyperprovacular condition of the inside of blood
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                                                                                                                                                                                                                                                                                                                                       Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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                                                                                                                                                                                                                                     Edmondson SR;
                                                                                                                                                                                    (MURD-) MURDOCH CHILDRENS RES INST.
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                                                                                                                                                                                                                                                                                                                                                                                                                             inflammation.
                                                                                                                              21-JUN-1999;
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                         28-DEC-2000
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receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing protein [IGFBP]-2 or IGFBP3), which is capable of inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectides of the present invention (see AAF4151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pliaris, serborrhoea, keloids, keratosis, ineoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15 BP; 8 A; 2 C; 2 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                     Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 8; Page 81; 201pp; English.
                                                                                                                                                                                                                                                                                              (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   vessels or any other hyperplasia
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                                                                                                                                                                                       21-JUN-2000; 2000WO-AU000693.
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Matches 12, Conservative
                                                                                                                                                                                                                                                                                                                                                  Werther GA,
                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-041421/05
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                               Homo sapiens.
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RESULT 16 AAF52634/

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Gaps

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                               Asking disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBF]-2 or IGFBF], which is capable of inhibiting or reducing growth factor method cell proliferation, inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectide which can be used to design the antisense oligonuclectides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, ichthyosis, pityriasis, varts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, the performancies of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                             present invention relates to a method for ameliorating the effects of
                                                                                                                    Edmondson SR;
                                                                 (MURD-) MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                               Example 8; Page 88; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vessels or any other hyperplasia
                         99US-0140345P.
                                                                                                                  Werther GA,
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                      21-JUN-1999;
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0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 1ive 0; Mismatches 2; Indels
                               12; Conservative
               Similarity
   Query Match
                  Local
                               Matches
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Sequence 15 BP; 1 A; 0 C; 13 G; 1 T; 0 U; 0 Other;

BP. IGFBP2 oliganucleotide #334. AAF45495 standard; DNA; 15 (first entry) 30-MAR-2001 AAF45495; RESULT 1661 AAF45495 g

Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis, IGF binding procein, IGFBP-2; IGFBP3; inflammation, psoriasis, pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea, ruba, keratosis, neophasia; scleroderma; wart, skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia, kidney disease; neovascular condition; hyperplasia, sidney disease;

WO200078341-A1.

28-DEC-2000,

21-JUN-2000; 2000WO-AU000693

99US-0140345P 21-JUN-1999; (MURD-) MURDOCH CHILDRENS RES INST.

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Pactor [168]-1 receptor, IGF binding protein [1678]-2 or IGFBR3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the effects of psoriasis, F45161. The method is useful for ameliorating the effects of psoriasis, neoplasias, soleroderma, wats, beingn growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, by byearneovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
                                                                                                        Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15 BP; 2 A; 7 C; 5 G; 1 T; 0 U; 0 Other;
                     Edmondson SR;
                                                                                                                                                                                                                         Example 6; Page 36; 201pp; English.
                     Werther GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                               WPI; 2001-041421/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 12; Conserv
                                                                                                                                                                             inflammation.
                   S,
                     Wraight
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묤. 1286 GCGCCCACAAGCCA 1299 AAF46762 standard; DNA; 15 GCGCCGCATGCCA 15 ~ RESULT 1662 AAF46762/c g à

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Antisense therapy, antiproliferative, antinflammatory; antipsoriatic, cytostatic, dermatological, cardiant; virucide; ophthalmological, keloid, skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris, growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keartosis; neoplasia; sclaroderma; wart; skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neovascular condition; hyperplasia; kidney disease;

GFBP3 oligonucleotide #182.

(first entry)

30-MAR-2001 AAF46762;

Homo sapiens.

WO200078341-A1

21-JUN-2000; 2000WO-AU000693.

21-JUN-1999; 99US-0140345P.

(MURD-) MURDOCH CHILDRENS RES INST.

Edmondson SR; Wraight CJ, Werther GA,

WPI; 2001-041421/05

Example 7; Page 47; 201pp; English

inflammation

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Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein, IGFBP-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neophasia; solaroderma; wart; skin cancer; sclerotic disease; hypermeowascular condition; hyperplasis; kidney disease; neobvascular condition of the retina; ssi
                                                                                                                                                                                                                                                                                     The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-1ke Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inhibiting or reducing growth factor mediated cell proliferation, oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliotrating the effects of psoriasis, ichthyosis, pityriasis, ruba, plaaris, serborrhoea, Keloids, keratosis, chophasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
                            Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 15 BP; 0 A; 5 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                        Example 7; Page 45; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vessels or any other hyperplasia
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Rest Local Similarity
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                                                                                                                                                   inflammation.
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AAF47078
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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

Edmondson SR;

Werther GA,

Wraight CJ,

WPI; 2001-041421/05.

MURD-) MURDOCH CHILDRENS RES INST.

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                                                                     The present invention relates to a method for ameliorating the effects of antisense or antisense contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide of the present invention (see AAF4151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, inchthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, ineoplasias scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
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                                                                                                                                                                                                                                                                                                                                                                                                                                  0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15 BP; 2 A; 8 C; 4 G; 1 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                        vessels or any other hyperplasia
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Best Local Similarity 85.7
Matches 12; Conservative
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-like Growth Factor (IGF)-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, oligonuclectide which can be used to design the antisense oligonuclectide which can be used to design the antisense oligonuclectide which is useful for ameliorating the effects of psorisasis, rethylosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;
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Score 10.8; DB 1; Length 15; Pred. No. 9e+02; O; Mismatches 2; Indels . 0 0.5%; 999 TGGGAAATCGACAC 1012 1 receasarceccae 14 Local Similarity 85.7 Query Match Matches à 셤

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Gaps ö

> 1665 RESULT 16 AAF53240/

AAF53240 standard; DNA; 15 (first entry) 30-MAR-2001 AAF53240;

ВР.

IGF-I oligonucleotide #4200.

Antisense thexapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic; dermatological; cardiant, virucide, ophthalmological; keloid, skin disorder; Insulin-1Re Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein, IGFBF-2; GFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keartosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; necovascular condition; hyperplasia; kidney disease;

Homo sapiens.

WO200078341-A1.

28-DEC-2000

21-JUN-2000; 2000WO-AU000693.

99US-0140345P. 21-JUN-1999; (MURD-) MURDOCH CHILDRENS RES INST. Wraight CJ, Werther GA,

Edmondson SR;

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or

Example 8; Page 92; 201pp; English.

inflammation.

SR;

Edmondson

Werther GA,

Wraight CJ,

WPI; 2001-041421/05

(MURD-) MURDOCH CHILDRENS RES INST.

99US-0140345P.

21-JUN-1999;

21-JUN-2000; 2000WO-AU000693.

WO200078341-A1.

28-DEC-2000.

Homo sapiens

The present invention relates to a method for ameliorating the effects skin disorders. The method comprises contacting the skin with a antiense oligonuclectide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonuclectide which can be used to design the antisense oligonuclectides of the present invention (see AAF45151 and AAF45153-

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

Example 8; Page 88; 201pp; English.

당 The present invention relates to a method for ameliorating the effects skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF] 1 receptor, IGF binding protein [IGFBP] 2 or IGFBP3), which is capable of

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inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense of an oligonucleotide which can be used to design the antisense AP45151 and oligonucleotides of the present invention (see AA45151 and AA45153-F45161). The method is useful for ameliorating the effects of psoriasis, inchthyosis, pityriasis, tuba, pilaris, serborthoea, keloids, keratosis, neoplasiss, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperpoliferation of the inside of blood vessels or any other hyperplasia
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                                                                                                                                                                                                                                                                                                                                                                                               AAF53877 standard; DNA; 15
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligomucleotide, (for Insular-like Growth Factors [IGF]-1 receptor, IGF binding protein [IGFB9]-2 or IGFB93), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligomucleotide which can be used to design the antisense oligomucleotide which can be useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, sechornhoea, kelolids, keatosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina,
F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
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                                                                                                                                                                                                                                                     Gaps
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0
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l Similarity 85.7%; Pred. No. 9e+02; 
12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                  Sequence 15 BP; 3 A; 6 C; 4 G; 2 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF45496 standard; DNA; 15 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IGFBP2 oligonucleotide #335.
                                                                                                                                                                                                                                                                                        787 GAGTGTGTCTCCTG 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                           GAGTGTGTCGCCAG 2
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Best Local 9
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligomucleotide, (for Insulin-like Growth Factor [108]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligomucleotide which can be used to design the antisense oligomucleotide which can be used to design the antisense oligomucleotide which can be used to design the effects of psoriasis, chthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, nepplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, branch factor—mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
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brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia
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9e+02;
hes 2; Indels
                                                                            Sequence 15 BP; 2 A; 7 C; 4 G; 2 T; 0 U; 0 Other;
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0; Mismatches
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85.7%; Pred. No. 9e+
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                                                                                                                                                                                            1286 GCGCCCACAAGCCA 1299
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                                                                                                                                                                                                                                                                                                                              AAF50571 standard; DNA; 15
                                                                                                                                                                                                                                   1 GCGCCCCCATGCCA 14
                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                         12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-041421/05.
                                                                                                                                        Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                             30-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-DEC-2000.
                                                                                                                                                                                                                                                                                                                                                                       AAF50571;
                                                                                                                   Query Match
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                                                                                                                                                                                                                                                                                         RESULT 1668
                                                                                                                                                         Matches
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schultz451-1.rng

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Gaps

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Indels

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Mismatches

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Conservative

12;

15

CTACAACTACGCCC

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ВР.

(first entry)

Tue Mar

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Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding procein; IGFBP-2; IGFBP3; inflammation; psoriasis; pitaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis, kidney disease; necovascular condition; hyperplasis, kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MURD-) MURDOCH CHILDRENS RES INST.
                                  1040 CTACTACTAGGCC 1053
                                                                                                                                                                                                                                      IGFBP3 oligonucleotide #1252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-JUN-2000; 2000WO-AU000693
                                                                                                                                          AAF47832 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wraight CJ, Werther GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-041421/05
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                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
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                                                                                                                                                                                                         30-MAR-2001
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                                                                                                                                                                           AAF47832;
                                                                                                                RESULT 1670
      Matches
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                                                                                                                                                                                                                                                                                                                       Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, skin disorder, Insulin-like Growth Factor. I receptor; IGF-1; pityriasis; IGF binding protein, IGFBP-2; IGFBP3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea, ruba, keratosis; neoplasia; scleroderma, wart, skin cancer; sclerotic disease; hypermeovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        atting present inventor. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBF]-2 or IGFBF], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other discorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4SIS)-F45161). The method is useful for maniforating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, ranners of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to a method for ameliorating the effects
                                                                Gaps
                                                                ·,
                             0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
live 0; Mismatches 2; Indels
Sequence 15 BP; 4 A; 9 C; 1 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 4 A; 7 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Edmondson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 8; Page 63; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    vessels or any other hyperplasia
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                                                                                          1135 ACCTCCAGCTCCAC 1148
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                                                                                                                                                                                                                                                                                               IGF-I oligonucleotide #380.
                                                                                                                                                                                                    AAF49420 standard; DNA; 15
                                                                                                                      1 Accrecaceae 14
                                                                                                                                                                                                                                                              (first entry)
                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Werther GA,
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                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200078341-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammation.
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                                                                                                                                                                                                                                                               30-MAR-2001
                                                             12;
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                               Query Match
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                                                             Matches
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Edmondson SR;

99US-0140345P

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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 5 A; 7 C; 3 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                      Example 7; Page 52; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vessels or any other hyperplasia
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Hes 12; Conservative
                                                                                                                                    inflammation.
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Score 10.8; DB 1; Length 15; Pred. No. 9e+02;

0.5%;

Best Local Similarity

Query Match

AAF53972 standard; DNA; 15 BP.

IGF-I oligonucleotide #4932.

(first entry)

30-MAR-2001

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Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin discorder; Insulin-like Growth Factor. I receptor; IGF1.; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keartosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasis, kidney disease; neobascular condition; hyperplasis, kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to a method for ameliorating the effects of akin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]) in receptor, IGF binding protein [IGFBP] - 2 or IGFBP3), which is capable of infilammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF4151 and AAF45153-P45161). The method is useful for ameliorating the effects of psoriasis, neoplasias, scleroderma, warts, benign growths, cancers of the skin a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperprolection of the inside of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 15 BP; 4 A; 5 C; 2 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                   IGF-I oligonucleotide #1860.
                                                                                            AAF50900 standard; DNA; 15
2 GAGCACAGCACCCA 15
                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Werther GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-041421/05.
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tes 12; Conserv
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                                                                                                                                     AAF50900;
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                                                                         AAF50900
ID AAF5
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Edmondson SR;

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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anticontaction disorders. The method comprises contacting the skin with an receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation and/or other disorders. The present sequence is an inflammation is useful for ameliorating the effects of psoriasis, chinyosis, pityriasis, ruba, pitaris, serborrhoea, keloids, keratosis, neoplasis, soleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, disease, kidney disease, hyperproliferation of the inside of blood to vessels or any other hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or
                                                                                                                                              Antisense therapy, antiproliferative, antinflammatory, antipsoriatic, cytostatic, dermatological, cardiant, virucide, ophthalmological, keloid, shin discorder, Insulin-like Growth Factor. I receptor; IGFF1: pityliasis; IGF binding protein, IGFB-2: IGFBF3; inflammation, psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba, kearcosis, neoplasia; scleroderma, wart, skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia, kidney disease; neobascular condition of the retina; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 5 A; 3 C; 6 G; 1 T; 0 U; 0 Other;
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Best Local Similarity
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AAF52960 standard; DNA; 15

RESULT 1673

AAF52960,

AAF52960;

14 GreceAgricee 1

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0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; cive 0; Mismatches 2; Indels

1064 ACCCAAGCTTCAGT 1077

ACCAATGCTTCAGT 15

RESULT 1672

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF].

receptor, IGF binding protein [IGFBB]-2 or IGFBB3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, plaris, serborrhoea, keloids, keratosis, chopharias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, hidney disease, hyperproliferation of the inside of blood
                                                                                         Antisense therapy, antiproliferative, antiinflammatory, antipsoriatic, cytostatic; dermatological; cardiant; virucide, ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pittyriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keardosis; neophasia; scleroderma; wart; skin cancer; sclerotic disease; hypermeowascular condition; hyperplasia; kidney disease; neobascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.
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Pred. No. 9e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15 BP; 3 A; 4 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Edmondson SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              (MURD-) MURDOCH CHILDRENS RES INST.
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                                                       IGF-I oligonuclectide #3920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAF70011 standard; DNA; 15
                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wraight CJ, Werther GA,
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Best Local Similarity
Matches 12; Conserv
                                                                                                                                                                                                                                                                                                         WO200078341-A1.
                                                                                                                                                                                                                                                                        Homo sapiens.
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                    30-MAR-2001
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AAF70011/
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AC AAF7
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Human TNFRSF11B gene ASO probe, SEQ 1D NO:

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The present sequence is a probe used to detect polymorphisms in the human osteoclastogenesis inhibitory factor (TNRRSF11B). Polymucleotides comprising one or more of twenty four novel single nucleotide polymorphisms in the TNRRSF1B gene have been identified. TNRRSF1B regulate osteoclast recruitment and function. An understanding of variations in the gene should thus be useful in developing new therapies for metabolic disorders caused by abnormal osteoclast recruitment and function such as osteoporosis, metastatic bone disease, Paget's disease, rheumatoid arthritis and periodontal bone disease
                                                                                                                                                                                                                                                                                                                                                                      Human Osteoclastogenesis Inhibitory Factor nucleotides, comprising single nucleotide polymorphisms, useful for studying e.g. osteoporosis, Paget's disease and rheumatoid arthritis.
             Human, TNFRSF11B; osteoclastogenesis inhibitory factor;
single muclectide polymorphism; SNP; osteoclast recruitment;
osteoclast function; osteoporosis; metastatic bone disease;
Paget's disease; rheumatoid arthritis; periodontal bone disease; ASO;
allele-specific oligonucleotide; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               single nucleotide polymorphism; SNP; osteoclast recruitment; osteoclast function; osteoporosis; metastatic bone disease; Paget's disease; rheumatoid arthritis; periodontal bone disease; ASO;
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                                                                                                                                                                                                                                                                                                         Stephens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human TNFRSF11B gene ASO probe, SEQ ID NO: 103.
                                                                                                                                                                                                                                                                                                         Nandabalan K,
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 15; Page 23; 114pp; English.
                                                                                                                                                                                                                                                                         (GENA-) GENAISSANCE PHARM INC.
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                                                                                                                                         WO200104137-A1
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                                                                                                              Homo sapiens
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The present sequence is a probe used to detect polymorphisms in the human osteoclastogenesis inhibitory factor (TNFRSF11B). Polymucleotides comprising one or more of twenty four novel single nucleotide polymorphisms in the TNFRSF11B gene have been identified. TNFRSF11B regulate osteoclast recruitment and function. An understanding of variations in the gene should thus be useful in developing new therapies for metabolic disorders caused by abnormal osteoclast recruitment and function such as osteoporosis, metastatic bone disease, raget's disease, rheumatoid arthritis and periodontal bone disease
       The present sequence is a probe used to detect polymorphisms in the human osteoclastogenesis inhibitory factor (TNFRSF11B). Polymucleotides comprisation one or more of twenty four novel single nucleotide polymorphisms in the TNFRSF1B gene have been identified. TNFRSF1B regulate osteoclast recruitment and function. An understanding of variations in the gene should thus be useful in developing new therapies for metabolic disorders caused by abnormal osteoclast recruitment and function such as osteoporosis, metastatic bone disease, Paget's disease, rheumatoid arthritis and periodontal bone disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human Osteoclastogenesis Inhibitory Factor nucleotides, comprising single nucleotide polymorphisms, useful for studying e.g. osteoporosis, Paget's disease and rheumatoid arthritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human, TNFRSF11B; osteoclastogenesis inhibitory factor; single mucleoride polymorphism; SNP; osteoclast recruitment; osteoclast function; osteoporosis; metastatic bone disease; Paget's disease; rheumacid; arthritis; periodontal bone disease; ASO; allele-specific oligonucleotide; probe; ss.
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                                                                                                                                                                                          Sequence 15 BP; 4 A; 3 C; 1 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human INFRSF11B gene ASO probe, SEQ ID NO: 75.
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AAF70019
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                                                                                                                                                                                                                                                          The present sequence is a probe used to detect polymorphisms in the human osteoclastogenesis inhibitory factor (TNFRSF118). Polymucleotides comprising one or more of twenty four novel single nucleotide polymorphisms in the TNFRSF118 gene have been identified. TNFRSF118 regulate osteoclast recruitment and function. An understanding of variations in the gene should thus be useful in developing new therapies for metabolic disorders caused by abnormal osteoclast recruitment and function such as osteoporosis, metastatic bone disease, Paget's disease, rheumatoid arthritis and periodontal bone disease
                                                                                                                                                       Human Osteoclastogenesis Inhibitory Factor nucleotides, comprising single nucleotide polymorphisms, useful for studying e.g. osteoporosis, Paget's disease and rheumatoid arthritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human, TNPRSF11B, osteoclastogenesis inhibitory factor;
single nuclectide polymorphism; SNP; osteoclast recruitment;
osteoclast function; osteoporosis; metastatic bone disease;
Paget's disease; rheumatoid arthritis; periodontal bone disease;
allele-specific oligonucleotide; probe; ss.
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                                                                                       Stephens JC;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 15 BP; 3 A; 3 C; 2 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human TNFRSF11B gene ASO probe, SEQ ID NO: 105.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Duda A, Nandabalan K,
                                                                                   Duda A, Nandabalan K,
                                                                                                                                                                                                                              Claim 15; Page 23; 114pp; English.
                                                   (GENA-) GENAISSANCE PHARM INC.
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                                                                                     Denton RR,
                                                                                                                       WPI; 2001-147175/15.
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                  09-JUL-1999;
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                                                                                     Chew A,
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Matches
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15;

DB 1; Length

Score 10.8;

0.5%;

Query Match

Claim 15; Page 23; 114pp; English

RESULT 1678

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AAH28531

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Detection; probe; diagnosis; oral disease; paradontitis; caries; therapy; polymorphism; virulence factor; antibiotic resistance gene; prognosis; oral infection; detection; pathogen; coronary heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fluorescent pigments and an energy acceptor fluorescent pigment in which the energy from the former is relayed to the latter successively and transferred. The probe can be used for the detection of a target virus. The present sequence is a probe described in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            energy donor fluorescent pigments (dfp) and an energy acceptor fluorescent pigment (afp) in which the energy from (dfp) is relayed to (afp) successively and transferred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a method of detecting a target virus using fluorescence resonance energy transfer (FRET), involving react: with a labelled probe formed between at least two same energy donor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detecting a virus comprises a probe formed between at least two same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ive 0; Mismatches 2; Indels
                                                                         labelled probe;
                                                                                                                                                                                                                /*tag= a
/mod_base= OTHER
/note= "modified by Bodipy493/503"
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                                                                           detection probe, FRET; labelle resonance energy transfer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      (BUNS-) BUNSHI BIOHOTONICS KENKYUSHO KK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 10; 40pp; Japanese
                                                                                                                                                                          Location/Qualifiers
                                     Target virus detection probe #11
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Best Local Similarity
Matches 12; Conserv
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                                                                                                                                                                                               modified_base
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06-AUG-2003
09-JAN-2003
                                                                           Target virus
fluorescence
                                                                                                                                                                                                                                                                                                                                                                          16-JUL-1999;
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  19-SEP-2001
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                                                                                                                                      Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention provides the protein, cDNA and genomic sequences of human interfleukin-13 (ILI3), and describes the single muoleotide polymorphisms (SNPs) found within the gene, which is found on chromosome 5q31. ILI3 is a pro-inflammatory cytokine thought to be involved in the pathogenesis of sathma and other immune and inflammatory diseases. The ILI3 sequences and the SNPs identified can be used in drug screening, to determine an individual's susceptibility to disease, in forensic and paternity testing, and to identify treatments for anore, immune and inflammatory diseases, including asthma and diseases characterised by fibrosis. The present sequence is an ILI3 allele-specific oligonucleotide
                                                                                                                                                                                                                                                                                                                                                     Human, interleukin-13, ILL3, single nucleotide polymorphism; SNP; cancer; inflammation, immune disorder; cytokine; asthma; chromosome 5q31; fibrosis; forensic; disease susceptibility; drug screening; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel polynucleotide comprising single nucleotide polymorphisms in human interleukin-13 gene is useful for studying expression and function of interleukin-13, as well as diagnosing and treating cancer, inflammatory, and immune disorders.
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85.7%; Pred. No. 9e+02;
ive 0; Mismatches 2; Indels
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  Pred. No. 9e+02;
0; Mismatches
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AAH46690 standard; DNA; 15 BP.
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85.7%;
                                                        1047 TAAGCCCCTGGCCC 1060
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                       12; Conservative
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Best Local Similarity
  Best Local Similarity
Matches 12; Conserv
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AAH46690/C
ID AAH46690
XX
AC AAH46690
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Gaps

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Best Loca Matches

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Producing copies of specific nucleic acids in vitro, without the need of intermediate structures, useful for determining if samples have come from living or dead organisms.
                                                                                                                                                                                                                                                         The present invention describes a method for detecting the presence of polymorphisms associated with inflammatory bowel diseases such as the arterial confirmation of detect the presence of test of crohn's disease. The methods can be used to detect the presence of genetic polymorphisms associated with inflammatory bowel disease and correlating their occurrence with disease states. They may be used in this way for phenotypic correlations, forensics, patentity testing, medicine and genetic analysis. The present sequence is a polymorphic site described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            M13mp18; living organism; dead organism; nucleic acid copying; isostatic condition; temperature; buffer; ionic strength; PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes a method for producing, in vitro, copies
                                                                                                                                                        Testing for the presence of polymorphisms associated with inflammatory bowel disease, using a hybridization assay.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.5%; Score 10.8; DB 1; Length 15; 80.0%; Pred. No. 9e+02; ive 0; Mismatches 3; Indels
                                                                            Siminovitch K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 BP; 4 A; 5 C; 4 G; 1 T; 0 U; 1 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        M13mp18 nucleotide sequence PCR primer #7.
                                                                              Rioux J,
               WHITEHEAD INST BIOMEDICAL RES. ELLIPSIS BIOTHERAPEUTICS CORP.
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                                                                              Lander ES,
                                                                                                                                                                                                                            Claim 1; Page 75; 463pp; English
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(first entry)
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RABBANI E.
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Best Local Similarity 80.0
Matches 12; Conservative
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                                                                              Hudson IJ,
                                                                                                                    WPI; 2001-367874/38.
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26-APR-2001
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(RABB/) H
(DONE/) I
                 (WHED ) 1 (ELLI-) 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ó
                                                                                                                                                                                                                                                                                                                                                                     This invention describes a novel nucleotide carrier with probes used for diagnosis of oral diseases, particularly paradontitis, but also caries, especially to identify genetic predisposition (as indicated by polymorphisms) to disease and to identify causative microorganisms or their associated virulence factors and antibiotic resistance genes, e.g. for selection of therapy and for prognosis. They are also useful for research into oral infections. The carriers allow simultaneous detection of both host and pathogen parameters, providing quickly and simply an individual's paradontitis profile, including detection of pathogens that are associated with increased risk of coronary heart diseases and/or aggravation of mother cymptoms, and of opportunistic pathogens. ABX03870-ABX04044 represent DNA fragments used to illustrate the method of the invention (Updated on 06-AUG-2003 to correct OS field.) (Updated
                                                                                                                                                                                                                                                                       Oligonucleotide array, useful for diagnosing oral diseases, particularly
paradontitis, carries human or microbial reference sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human, inflammatory bowel disease, Crohn's disease, ulcerative colitis; single nuclectide polymorphism; SNP; chromosome 19p13; paternity test; chromosome 5q31-33; forensic test; gene therapy; ds.
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"SNP, optionally T or C at this position"
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                                                                                                                                                                                                                                                                                                                                      Claim 8; Page 23; 58pp; German.
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10-APR-2000; 2000US-0196046P.
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                                                                                   13-MAR-2001; 2001DE-02010013.
                                                                                                                         13-MAR-2001; 2001DE-01012348.
13-MAR-2001; 2001DE-02010013.
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/note=
                                                                                                                                                                                                                              WPI; 2001-65777/76.
                                                                                                                                                                                      (ROET/) ROETGER A.
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DE20110013-U1.
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                                          18-OCT-2001
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AAH91789

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Gaps

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of a specific nucleic acid. The process does not require the use of intermediate structures for the production of the nucleic acid. The method comprises: (a) providing a nucleic acid sample containing the specific sequence, (b) concacting the sample with a mixture containing: (i) nucleic acid precursors; (ii) specific nucleic acid primars, each complementary to a distrinct region of the sequence; and (iii) a nucleic acid producing catalyst; and (c) allowing the mixture to react under isostatic conditions of temperature, buffer and ionic strength. The method can be used for producing copies of specific nucleic acids in vitro. The process can be used to determine if a specific target nucleic acid was derived from a living or deceased organism. The present sequence represents a PCR primer for the Milmpls nucleotide sequence which is used in an example from the present invention. (Updated on 11-SEP-2003 to
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Sequence 15 BP; 9 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Gaps ö Score 10.8; DB 1; Length 15; Pred. No. 9e+02; 0; Mismatches 2; Indels 0.5%; Query Match Best Local Similarity 85.7% Marches 12; Conservative

780 AGAAAACGAGTGTG 793 1 AGAAAACGAGAATG 14 ò d

AAF70325 standard; DNA; 15 AAF70325 RESULT 16 AAF70325/

Human DRD2 allele specific oligonucleotide primer SEQ ID NO:68. (first entry) 20-APR-2001

Human; dopamine receptor D2; DRD2; polymorphism; allele specific; drug target isogene; detection; single nucleotide polymorphism; SNP; genotype; schizophrenia; Parkinson's disease; myoclonus dystonia; MD; probe; PCR primer; ss

Homo sapiens.

WO200105832-A1.

25-JAN-2001.

19-JUL-2000; 2000WO-US019644.

19-JUL-1999; 99US-0144493P.

(GENA-) GENAISSANCE PHARM INC.

Denton RR,

Chew A,

Polymucleotides comprising single nucleotide polymorphisms in the human dopamine receptor D2, useful for detecting mutations associated with, e.g. schizophrenia, Parkinson's and myoclonus dystonia. WPI; 2001-091967/10

Stephens JC;

Duda A, Nandabalan K,

Claim 15; Page 23; 135pp; English.

The present invention describes polynucleotides comprising single mucleotide polynucphisms (SNPs) in the human dopemaine receptor D2 (DRD2). The polynucleotides may be used in assays to detect and characterise polymorphisms in DRD2 that affect its expression and activity and are prolymorphisms in DRD2 that affect its expression and activity and are involved in disorders such as schlizophrenia, Parkinson's and myoclonus dystonia (MD). This information would be useful for studying the biological function of DRD2 as well as in identifying drugs targeting this protein for the treatment of disorders related to its abnormal expression or function. Polymorphisms in the DRD2 gene affect the expression of active and functional polypeptides. Therefore it is

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advantageous to detect polymorphisms in the DRD2 gene and how those polymorphisms are combined in different copies of the gene. AAF70261 to AAF70305 represent human DRD2 allele specific oligonucleotide probes, and AAF70309 to AAF70404 represent human DRD2 allele specific oligonucleotide primers which are used in the detection of DRD2 polymorphisms. AAF70405 to AAF70452 represent oligonucleotide primers for the derection of human DRD2 polymorphisms which are given in the exemplification of human DRD2 polymorphisms which are given in the exemplification of the present invention. AAF70453 to AAF70538 represent PCR primers for the human DRD2 gene which are used in examples from the present invention
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es 12; Conserv
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interleukin 4 receptor-alpha; IL4R-alpha; Human IL4Ralpha gene probe #94 13-JUL-2000; 2000WO-US019094. Polymorphism; human; interle allergic disease; probe; ss. (first entry) WO200104270-A1. Homo sapiens. 18-APR-2001 18-JAN-2001. AAF69454;

AAF69454 standard; DNA; 15 BP.

RESULT 1684

AAF6945

Stephens JC; Duda A, Nandabalan K, (GENA-) GENAISSANCE Denton RR, Windemuth AK; Chew A,

13-JUL-1999; 99US-0143435P.

WPI; 2001-103078/11.

New isolated polynucleotide useful for the identification of therapeutics in allergic diseases is new

Claim 15; Page 44; 188pp; English.

The present invention relates to polymorphisms of the human interleukin 4 receptor-alpha gene (IL4R-alpha; see AAF57718 for the reference asquence). Polymorpic comprising polymorphic gene variants are useful for therapeutic purposes. For example, where a patient may benefit from expression of a particular IL4Ralpha protein isoform, an expression vector encoding the isoform may be administered to the patient. It may desirable to decrease or block expression of a particular II4Ralpha protein isoform, and the appearance or block expression of a particular II4Ralpha isogene, which may be done by turning off by transforming a targeted organ, tissue or cell population with an expression vector that expresses high leaves of untranslatable mRMA for the isogene. Specific therapeutics identified by these methods may be useful for allergic diseases. The present sequence is a probe for human IL4R-alpha

Sequence 15 BP; 1 A; 9 C; 3 G; 2 T; 0 U; 0 Other;

Score 10.8; DB 1; Length 15; Pred. No. 9e+02; 0.5%; Query Match Best Local Similarity

Matches

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1685

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The present invention relates to a polymorphic variant of a reference sequence for the solute carrier family 6 neurotransmitter transporter, serotronin member 4 (SLC6A4) gene or a fragment of it or a sequence complementary to the first sequence. The invention is used in producing a recombinant organism that can be used to express SLC6A4 for protein structure analysis and binding studies. A composition comprising a genotyping oligonuclectide is used to detect a polymorphism in the SLC6A4
Solute carrier family 6 neurotransmiter transporter, sectonin 4; SLC6A4; genotyping; allele specific oligonuclectide; ss.
                                                                                                                                                                                                                                                                                                                                New isolated polynuclectide comprising a polymorphic variant for the solute carrier family 6 neurotransmitter transporter, serotonin member 9 gene for identifying drugs for treating disorders related to expression
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85.7%; Pred. No. 9e+0
ive 0; Mismatches
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                                                                                                                                                                                                                                                                   Nandabalan
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                                                                                                                                                                                                                               (GENA-) GENAISSANCE PHARM INC.
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24-OCT-2000; 2000DE-01053478.
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Best Local Similarity
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of the protein.
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                                                           Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated polynucleotide comprising a polymorphic variant for the solute carrier family 6 neurotransmitter transporter, serotonin member 4 gene for identifying drugs for treating disorders related to expression
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           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human SLC6A4 allele-specific oligonucleotide primer #33
                                                                                                                                                                                                                                                                        Human SLC6A4 allele-specific oligonucleotide primer #11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 0 A; 2 C; 10 G; 3 T; 0 U; 0 Other;
           2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sanchis A,
           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    claim 12; Page 21; 152pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nandabalan
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                                                                                                                                                                   ВР.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-JUL-2000; 2000WO-US020638.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99US-0146290P
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                                                                                                                                                                     AAF73891 standard; DNA; 15
                                                                              14
                                                                                                                                                                                                                                        (first entry)
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              Conservative
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                                              1236 AGCCCTCGCCTCG
                                                                          ACCCCCCCCCCTCCG
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                                                                                                                                                                                                                                                                                                                                                                                                 WO200109161-A1
                                                                                                                                                                                                                                                                                                                                                                sapiens
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                                                                                                                                                                                                                                        30-APR-2001
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             12;
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Local

Best Loc Matches

RESULT 1686

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AAF73913
TD AAF
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AC AAF
XX
DT 30-2
XX
XX
XX
XX
XX
XX

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Gaps

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WPI; 2002-123561/17.

This invention describes a novel DNA sequence, encoding a synthetic spider silk protein, comprising modules, each comprising a group of sequentially arranged oligonucleotides, each coligonucleotide encoding a repeating unit of a spidroin protein. Synthetic protein has at least of repeating unit of a spidroin protein. Psynthetic protein has at least of produce synthetic fibres, films and/or membranes, particularly: (i) for medical use, especially to close wounds and/or to support or cover artificial organs; (ii) as adhesion surfaces for culturing cells; and artificial organs; (ii) as adhesion surfaces for culturing cells; and (iii) as filters. The synthetic proteins are very similar to native spider silk proteins; can be prepared on a large scale and can be spun to fibre with excellent mechanical properties (strength and elasticity). Also they retain water solubility after long-term boiling in aqueous colluctors and since they are also soluble in organic solvents but precipitated at high salt concentration, they are easily extracted and purification or addilate solubility. This sequence represents a N. clavipes spidroin-I derived oligonucleotide used as a repetitive unit in the design of the synthetic proteins described in the invention New DNA encoding synthetic spider silk protein, useful e.g. for closing wounds, comprises modules that encode repeating units of spirodoin Claim 2; Page 14; 88pp; German. proteins.

Sequence 15 BP; 5 A; 8 C; 0 G; 2 T; 0 U; 0 Other;

Gaps . 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 9e+02; Thes 2; Indels 0; Mismatches 1127 CCACCTTCACCTCC 1140 12; Conservative Local Similarity Query Match Matches à

2 ccaccaraaccrcc 15

ABK97317 standard; DNA; 15 BP. (first entry) #323 5S-C PCR primer #1. 07-0CT-2002 ABK97317; RESULT 1688 ABK97317

Strain identification method; prokaryote, eukaryote, ribosomal DNA, HCR, highly conserved region, highly variable region; HVR, bacterium; methicillin-resistant Staphylococus aureus; nosocomial infection; 88; DNA fingerprinting; pathogenic bacteria; infection control; PCR; primer, restriction fragment length polymorphism; RFLP; 16s rRNA; 23s rRNA; 5S. THE CONTRACT OF THE CONTRACT O

Synthetic.

US6395475-B1

28-MAY-2002.

15-JUN-1995;

93US-00064596. .8-MAY-1993;

95US-00461210.

(UYFL) UNIV FLORIDA STATE.

Reeves RH; Whitehouse E, Leggett CG,

WPI; 2002-556092/59.

Identifying strain of prokaryote or individual of eukaryote, useful in clinical laboratories for strain identification of pathogenic bacteria,

The present invention relates to a new method of identifying strain of prokaryote or individual of eukaryote. This method involves amplifying a chighly conserved region (HCR) of ribosomal DNA of prokaryote or entaryote, where the HCR of DNA flanks a highly variable region (HVR) of entaryote, where the HCR of DNA flanks a highly variable region (HVR) of fragments that are separated fragmented to yield labelled, amplified DNA reguences which are labelled, and considerably and consideration of an eukaryote or entaryote or an individual of an eukaryote or the method is preferably useful for invention can be used for identifying a strain of a prokaryote or an individual of fractions, such species and the differences methicillin-resistant Staphylococcus aureus. The method is useful for identifying different bacterial strains involved in e.g. nosocomial confections, and for identifying species, sub-species and the differences between the individuals of the sub-species and the differences between the individuals of the sub-species such as pedigrees, with respect to a eukaryote. The method is sensitive enough to detect differences between e.g. Dacterial isolates of the same species. The method ence of protect individuals of the sub-species such as pedigrees, with more particularly, upon a type of DNA fingerprinting of multiple segments of DNA. The methods are beneficial in clinical laboratories, because they allow for rapid strain identification of pathogenic bacterial DNA is used. The method also provides results with great speed e.g. a preliminary screen by agarcse of provides results with great speed e.g. a preliminary screen by agarcse of completed 5-6 hours after receiving hospital isolates. The preliminary screen by greated of nosocomial infections, rather than having analysis (RPLP) The speed of the methods of the invention, as described above correspectively. The present uncleif adone retrospectively. The present multiple sequence ceptures and prevent the spread of nosocomial infections, rather than having analy Claim 1; Col 26; 31pp; English.

Sequence 15 BP; 2 A; 1 C; 8 G; 4 T; 0 U; 0 Other;

0 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 2; Indels tive 0; Mismatches 2; Indels Local Similarity 85.7 nes 12; Conservative Query Match Matches

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ABK97489 standard; DNA; 15 BP. (first entry) 07-OCT-2002 ABK97489; RESULT 1689 ABK97489

Human LCAT gene polymorphism detection ASO probe #12.

Lecithin-cholesterol acyltransferase; LCAT; Norum disease; gene therapy; fish-eye disease; atherosclerotic cardiovascular disease; forensic; population diversity; anthropological lineage; paternity testing; human; polymorphism; allele-specific oligonucleotide; ASO; probe; ss.

Homo sapiens.

WO200253575-A1.

11-JUL-2002

03-JAN-2001; 2001WO-US000092.

03-JAN-2001; 2001WO-US000092

comprises amplifying specific DNA fragment in ribosomal RNA intergene

screening

Stephens JC;

Nandabalan K,

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(GENA-) GENAISSANCE PHARM INC.
      WPI; 2002-557737/59
                                                                                                          WO200251859-A2
                                                                                                             04-JUL-2002.
               purposes.
   Chew A,
                                                                                RESULT 1690
                                                                                  ABL59300
                                                                                    В
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ö haplotyping and genotyping methods are useful for studying population diversity, anthropological lineage, the significance of diversity and diversity, anthropological lineage, the significance of diversity and lineage at the phenotypic level, paternity testing, forensic applications and for identifying is esponse or susceptibility to disease. In trait such as level of drug response or susceptibility to disease. In addition, the methods for identifying the LCAT haplotypes present in individuals are useful in the development of drugs targeting LCAT. For example, determining the frequency of individual LCAT haplotypes in a population with a specific disease, e.g. Norum disease, will facilitate the development of drugs targeting the LCAT isoform(s) that are most frequent in that disease population. The present nucleic acid sequence represents one of a collection (ABK97478-ABK97491) of allele specific Novel isolated polymorphic variant polynucleotide of lecithin-cholesterol acyltransferase gene, useful for studying expression and biological function of the gene, and for therapeutic, diagnostic or forensic The present invention relates to a new polynucleotide comprising a nucleotide sequence which is a polymorphic variant of a reference sequence for lecithin-cholesterol acyltramsferase (LCAT). The invention is useful for identifying an association between a trait (preferably a clinical response to drug targeting LCAT) and at least one genetype or applocype of LCAT gene. The method of the invention has applicability in developing diagnostic tests and therapeutic treatments for Norum disease fish-eye disease and atherosclerotic cardiovascular disease. The oligonucleotide (ASO) probes that were used in the invention to detect Gaps . 0 Score 10.8; DB 1; Length 15; Pred. No. 9e+02; 2; Indels Sequence 15 BP; 1 A; 2 C; 7 G; 5 T; 0 U; 0 Other; 0; Mismatches colymorphisms in the human LCAT gene Claim 16; Page 17; 72pp; English. 0.5%;

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Query Match
Best Local Similarity 85.7'
Matches 12; Conservative
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ASO probe for platelet activating factor receptor gene. ABL59300 standard; DNA; 15 BP. (first entry) 07-OCT-2002

Human; platelet activating factor receptor; PTAFR; isogene; cancer; chromosome 1; inflammatory disease; coronary disease; probe; ss.

Homo sapiens.

05-NOV-2001; 2001WO-US047441

(GENA-) GENAISSANCE PHARM INC 03-NOV-2000; 2000US-0245633P.

ä Koshy Choi JY, Chew A,

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The present sequence represents an allele-specific oligonucleotide (ASO) probe which is used for detecting polymorphisms in the human platelet activations. Activating Factor Receptor (FTARP) gene. The gene comprises polymorphic sites referred to as PSI-5 to designate the order in which they are located in the gene. Six isogenes of the PTARP gene exist. The PTARP gene is located on circomesome 1, and contains 1 exon. Polymorphisms PS3 and PS5 have previously been identified. RS3 and PS5 cocur in the coding region. The polymucleotide comprising polymorphisms in the PTARP gene is useful in screening candidate drugs to treat diseases related to PTARP activity, e.g. inflammatory diseases, coronary diseases or cancer. The PTARP isogenes are especially useful for treating these diseases. The methods and haplotypes are useful in improving the efficiency of drug discovery and development processes, or for designing clinical trials of candidate drugs for treating the sedical trials of
                                                                                          aring Factor Receptor (PTAFR) gene, useful for treating or scrifor treating e.g. inflammatory diseases, coronary diseases or
                                                                  comprising haplotypes of the human Platelet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15 BP; 0 A; 1 C; 3 G; 10 T; 0 U; 1 Other;
                                                                                                                                                                                                Claim 15; Page 13; 59pp; English.
                   WPI; 2002-566672/60.
                                                                                                Activating
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. 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 2.1ve 0; Mismatches 2; Indels ВP 908 TITICITIGGICIT 921 ABA98716 standard; DNA; 15 2 rrrigirickichr 15 (first entry) 12; Conservative Query Match Best Local Similarity Matches 12; Conserv 13-MAY-2002 ABA98716; RESULT 1691 ABA98716 δ g

Gaps

PNA; FRET; probe; nucleic acid amplification; peptide nucleic acid; fluorescence resonance energy transfer; disease diagnosis; food-borne pathogen detection; microbial detection; allelic discrimination; genotyping; gene expression analysis; ss. note = "OTHER = FAM-O" Location/Qualifiers mod base= OTHER *tag= modified_base modified_base Synthetic.

PNA FRET probe #5.

WO200194638-A2 13-DEC-2001

/mod_base= OTHER /note== "OTHER= dabcyl-E"

base= OTHER

*tag= b

06-JUN-2001; 2001WO-US018464

06-JUN-2000; 2000US-0209883P.

chen C,

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The present invention relates to a method for amplifying nucleic acid.

The method comprises annealing a primer (PI) to first strand (S1) of denatured target nucleic acid (dNA) at annealing temperature (T1);

catending P1 at T1 or extension temperature (E1) to generate doublestended (ds) nucleic acid, annealing primer (P2) to second strand (S2) of dNA at annealing temperature (T2); extending P2 to generate double.

Cof dNA at annealing temperature (T2); extending P2 to generate doNA;

Cof denaturing target daNA into S1 and S2. A probe hybridisation step may be incorporated into the cycle. A detectable probe is annealed to S2 of denatured target nucleic acid, probe hybridisation step may be incorporated into the cycle. A detectable probe is annealed to S2 of denatured target uncleic and s2. A probe hybridisation digest or a ligation product, or a target comprising single nucleotide polymorphisms. The asynchronous PCR cycle has utility in nuclease cleavage assay with a cleaving DNA flucrescence resonance energy transfer (RRET) probe, in assays for human disease diagnosis, food-borne pathogen detection and microbial detection, for allelic discrimination of target DNA, and in genotyping and gene expression analysis. The present sequence is a PNA FRET probe, which was used to illustrate real-time detection of
                                                                                                                                                                                                                                                                                                       Novel asynchronous thermal cycling method for amplification of target nucleic acid, involves two annealing and two extension steps employing two primers which differ in their thermal melting temperatures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ss; fluorochrome; nucleic acid probe; fluorescence
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                                                                                                                                                                                                                                                                                                                                                                                                                 Example 7; Page 41; 87pp; English.
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99JP-00242693.
2000JP-00028896.
                           06-JUN-2001; 2001WO-US018464.
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                                                                          06-JUN-2000; 2000US-0209883P
05-JUN-2001; 2001US-00875211
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                                                                                                                                                                                                         Chen C, Egholm M, Haff L;
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ABA97658 standard; DNA; 15
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30-AUG-1999;
01-FEB-2000;
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                                                                                                                                                                                                                                                                                                  The present invention relates to a method for amplifying nucleic acid.

The method comprises annealing a primer (P1) to first strand (S1) of denatured target nucleic acid (ANA) at annealing temperature (T2);

Stranded (ds) nucleic acid, annealing primer (P2) to second strand (S2) of GNA at annealing temperature (T2); extending P2 to generate doublestranded (ds) nucleic acid, annealing primer (P2) to second strand (S2) of GNA at annealing temperature (T2); extending P2 to generate dsNA;

of GNA at annealing temperature (T2); extending P2 to generate dsNA;

chacturing target dsNA into S1 and S2. A probe hybridisation step may be incorporated into the cycle. A detectable probe is annealed to S2 of method is useful for amplifying target nucleic acid, preferably a plasmid, cDNA, amplicon, genomic DNA, restriction digest or a ligation product, or a target comprising single nucleotide polymorphisms. The synchronous PCR cycle has utility in nuclease cleavage assay with a cleaving DNA flucrescence resonance energy transfer (FRET) probe, in assays for human disease diagnosis, food-borne pathogen detection and microbial detection, for allelic discrimination of target DNA, and in genotyping and gene expression analysis. The present sequence is a PNA probe, which was used to illustrate real-time detection of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                  Novel asynchronous thermal cycling method for amplification of target nucleic acid, involves two annealing and two extension steps employing two primers which differ in their thermal melting temperatures.
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/mod_base= OTHER
/note= "OTHER= dabcyl-E"
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                                                                                                                                                                                                                                                              Example 7; Page 41; 87pp; English.
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/mod_base= OTHER
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                                                    Egholm M, Haff L;
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(APPL-) APPLERA CORP.
                                                                                                      WPI; 2002-216734/27
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modified_base
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RESULT 1692 ABA98716,

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Gaps

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995 TTTGTGGGAAATCG 1008
                                                                                                                                                                                                                                                                                                                                                                                       ABT06035 standard; DNA; 15
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                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                                                          Similarity
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                                                                                                                        polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bowdish KS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                       ABT06035;
                                                                                                                                                                                         Query Match
Best Local 9
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                                                                                                                                                                                                                           Matches
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                                                                                                                        Measurement of nucleic acids, using a nucleic acid probe and analysis of
                                                                                                                                                                                                          This invention relates to a method for measuring nucleic acids using a nucleic acid probe labelled with a fluorochrome. The nucleic acid probe decreases the fluorescence of the fluorochrome when hybridised with a target nucleic acid, the decrease in the fluorescence is measured. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human, angiotensin receptor 2, forensic application, drug response, AGTR2, congenital abnormality of kidney and uninary tract; CAKUT; cardiovascular disorder; premture ovarian failure; gene therapy; POF; polymorphism; ASO; allele-specific oligonucleotide; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                                   Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                   method can be used for measuring a target nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human AGTR2 gene polymorphism detecting ASO primer #9.
                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 0 A; 9 C; 0 G; 6 T; 0 U; 0 Other;
                                                    KEIZAI SANGYOSHO SANGYO GIJUTSU SOGO KEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chew A, Choi JY, Koshy B, Stephens JC;
                                                                                                                                                                              Example 7; Page 19; 34pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 16; Page 20; 69pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAD43773 standard; DNA; 15 BP.
                    (BIOI-) BIOINDUSTRY KYOKAI SH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         32-FEB-2001; 2001WO-US003620.
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                                         KANKYO ENG KK
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                                                                                        WPI; 2002-134193/18
                                                                                                                                            the obtained data
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                                                        (KEIZ-)
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and for identifying associations between AGTR2 genetic variations and a trait such as levels of drug response or susceptibility to disease. It is useful in developing diagnostic tests and therapeutic treatments for eardiovesscular disorders, congenital abnormalities of kidney and urinary tract (CAKUT) and premature ovarian failure (POF). The invention is useful in gene therapy. The present sequence is an allele-specific oligonuclectide (ASO) primer used to detect human AGTR2 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Amplifying nucleic acid by synthesizing template nucleic acid containing a predetermined sequence and hairpin structure and using the template for target amplification by Single Primer Amplification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Single Primer Amplification; nested oligonucleotide extension reaction; hairpin; SPA; library; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Maruyama T;
                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                         0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human IgM heavy chain gene related oligo SEQ ID No 49.
                                                                                                                                                                                                                 Sequence 15 BP; 3 A; 2 C; 5 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 3; Page 21; 54pp; English
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19-SEP-2001; 2001US-0323400P.
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Length

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Query Match 0.5%; Sc.
Best Local Similarity 85.7%; Pr.
Matches 12; Conservative 0;
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                                                                                                                                                                                                                                                                                              Unidentified
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                                                                                                                                                                           AAD41883;
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                                                                                                                                          AAD41883
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprise at least three 3.-5. linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one nucleoside comprises a base. Sequences of the invention are useful for binding not if and in antisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to treating diseases caused by viruses and for diagnostic applications to carcious. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and for modulating target gene expression. They are also useful in gene the conditions are at larget DNA used in the exemplification.
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                                                                                                                                                                                                                                                                                                         Antisense therapy, infection, cardiovascular disorder, immune reaction, gene therapy, virucide, cytostatic, antibacterial, antiinflammatory,
sequence located on the same or different nucleic acid molecules. This polynucleotide sequence represents an oligonucleotide relating to the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                        Gaps
                                                                                                        0
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                                                                            Match 0.5%; Score 10.8; DB 1; Length 15; Local Similarity 85.7%; Pred. No. 90+02; es 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                   Target DNA #2 used in the exemplification of the invention.
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                                                          G; 2 T; 0 U; 0 Other;
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92US-00935444.
92US-00965941.
92US-00976103.
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                                                                                                                                                                                                                                                                                                                                                                                                                                 96US-00599738.
                                                          Sequence 15 BP; 2 A; 9 C; 2
                                                                                                                                839 GCCTACCCCAGATT 852
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                                                                                                                                                                                                                AAD41859 standard; DNA; 15
                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PHARM INC.
                                                                                                                                                                                                                                                                                                                          gene therapy; virucid
cancer; cardiant; ds.
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25-AUG-1992;
23-OCT-1992;
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Pudlo J;
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                                                                                                                                                                                                                                                                                                                                                            Unidentified
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14-NOV-1994;
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                                                                                Query Match
Best Local S:
Matches 12,
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/mod base= OTHER
/mote= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 30 in the sequence
listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 30 in the sequence
listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /*tag= c
/mod_base= OTHER
/mode= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 30 in the sequence
listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 30 in the sequence
listing"
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ID NO: 30 in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note= "5-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 30 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                  Antisense therapy, infection; cardiovascular disorder; immune reaction; gene therapy; virucide; cytostatic; antibacterial; antiinflammatory; cancer; cardiant; RNA-DNA hybrid; ss.
                                        Gaps
                                                                                                                                                                                                                                                                                                                                                             ON-25 oligonucleotide used in the exemplification of the invention.
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/note= "3'-thioformacetal linkage (3',5')"
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/mod_base= OTHER
/mod_base= OTHER
forte= "5-(1-propynyl) -2'-deoxyuridine;
given as N in the sequence shown as SEQ
sequence listing"
                                           Indels
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mod_base= OTHER
note= "3'-thioformacetal linkage
                                           ,
,
Score 10.8; DB 1
Pred. No. 9e+02;
); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
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                                                                                      1016 AAAAAGAGGGGAG 1029
                                                                                                                                                                                                                                       AAD41883 standard; DNA; 15
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                                                                                                                                                                                                                                                                                                                           (first entry)
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/*tag= 1
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schultz451-1.rng

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cardiovascular disorders, immune reactions and bacterial infections and for modulating target gene expression. They are also useful in gene therapy. The present sequence is a target RNA used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprises at least three 3.5 linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodiester linkage and at least one nucleoside comprises a base. Sequences of the invention are useful for binding to a DNA duplex target sequence via either CT or GT triplex helix binding morif and in antisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammers, in the treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note= "5-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 8 in the sequence listing"
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/mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antisense therapy, infection; cardiovascular disorder; immune reaction; gene therapy; virucide; cytostatic; antibacterial; antiinflammatory; cancer; cardiant; RNA-DNA hybrid; ss.
                                                                                                                                                                                                                                                                                 New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
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                                                                                                                                                                           Gutierrez AJ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2; Indels
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                                                                                                                                                                           Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
0.5%; Score 10.8; DB 1
Best Local Similarity 85.7%; Pred. No. 9e+02;
Matches 12; Conservative 0; Mismatches
                                                                                                                                                                           Wagner R, Mattencci M,
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91US-00799B24.
92US-00935444.
92US-00965941.
92US-00976103.
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                                                                                                                                    (ISIS-) ISIS PHARM INC
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modified_base
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                                            23 - OCT - 1992;
25 - NOV - 1992;
14 - NOV - 1994;
                                                                                                                                                                              Froehler B,
                           25-AUG-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprises at least three 3'-5' linked nucleosides or their salts, At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one nucleoside comprises a base. Sequences of the invention are useful for binding to a DNA duplex target sequence via either CT or GT triplex clix binding motif and in antisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as pathological conditions are also used as primamatory conditions, cardiovascular disorders, immune reactions and bacterial infections and therapy. The present sequence is an oligonuclectide used in the therapy. The present sequence is an oligonuclectide used in the
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                                                                                                                                                                                                                                                                                                                                                                                            New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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0
                                                                                                                                                                                                                                                                                           Gutierrez AJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Target RNA used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 0 A; 5 C; 0 G; 6 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                           Jones RJ,
                                                                                                                                                                                                                                                                                           Wagner R, Mattencci M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 15; Col 51; 106pp; English
                                                                                                                                 92US-00935444.
92US-00965941.
92US-00976103.
94US-00338352.
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                                                                          96US-0059973B.
                                                                                                               91US-00799824.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15 AAAAAGAGAGAG 2
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                                                                                                                                                                                                                                                 ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer; cardiant; ss.
                                                                                                                                                                                                                                                                                                                                                       WPI; 2002-535437/57
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                                                                                                                                    25-AUG-1992;
23-OCT-1992;
25-NOV-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-OCT-2002
                                                                       12-FEB-1996;
                                                                                                                                                                                                                                                                                           Froehler B,
                                                                                                                                                                                                       14-NOV-1994;
                              30-APR-2002
                                                                                                                 26-NOV-1991
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The present invention relates to novel cligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprises at least three 3-5' linked nucleosides or their salts. At least to me internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside comprises a base. Sequence of the invention are useful of the binding to a DNA duplex target sequence via either or or of triplex terating diseases caused by viruses and for diagnostic applications to treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions.

Cardiovascular disorders, immune reactions and bacterial infections and condulating target gene expression. They are also useful in gene therapy. The present sequence is an oligomucleotide used to generate triple helix structures. This sequence is used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /*tag= e
/mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "mod base= OTHER
note= "5-methyl-2'-deoxycytidine; This base is given as
in the sequence shown as SEQ ID NO: 31 in the sequence
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"mod base= OTHER

"note= "5-methyl-2'-deoxycytidine; This base is given as

Note= "5-methyl-2'-deoxycytidine; This base is given as

Note= "5-methyl-2'-deoxycytidine; This base is given as
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note= "5-methyl-2'-deoxycytidine; This base is given as
in the sequence shown as SEQ ID NO: 31 in the sequence
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                                                                                                                                                                                                                                                                                                                                                                                            0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
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Best Local Similarity
Matches 12; Conserv
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modified_base
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/mod base= OTHER
/mode= "5-(3-methyl-1-butynyl) uracil; This base is given
as N in the sequence shown as SEQ ID NO: 8 in the
sequence listing"
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/noce= "5-(3-methyl-1-butynyl) uracil; This base is given
as N in the sequence shown as SEQ ID NO: 8 in the
sequence listing"
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/note= "5-(3-methyl-1-butynyl) uracil; This base is given
as N in the sequence shown as SEQ ID NO: 8 in the
                                                                                                                                                                                                                                                                                             /note= "5-(3-methyl-1-butynyl) uracil; This base is given as N in the sequence shown as SEQ ID NO: 8 in the
                                                                                                                                                                                                                                                                                                                                                                                                /mood_base= OTHER //mood_base is given as /note= "5-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 8 in the sequence listing"
                                                                                 /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine, This base is given as
N in the sequence shown as SEQ ID NO: 8 in the sequence
11 isting"
            N in the sequence shown as SEQ ID NO: 8 in the sequence listing"
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mod_base= OTHER
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mod_base= OTHER
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92US-00935444.
92US-00965941.
92US-00976103.
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/label= RNA
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25-NOV-1992;
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Antisense therapy; infection; cardiovascular disorder; immune reaction; gene therapy; virucide; cytostatic; antibacterial; antiinflammatory; cancer; cardiant; RNA-DNA hybrid; ss.
                                                         ON-2 oligonucleotide used to generate triple helix structures.
                              (first entry)
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modified_base
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25-NOV-1992;
14-NOV-1994;
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25-AUG-1992;
                                                                                                                                                                Unidentified
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AAD41855;
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                                                            /mod_base= OTHER /note= "5-(1-propynyl)-2'-deoxyuridine; This base is given as N in the sequence shown as SEQ ID NO: 31 in the sequence listing"
N in the sequence shown as SEQ ID NO: 31 in the sequence
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Pred. No. 9e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                  /*tag= h
/mod_base= OTHER
/note= "Formacetal linkage (3',5')"
                                                                                                                                                   /*tag= g
/mod_base= OTHER
/note= "Formacetal linkage (3',5')"
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92US-00935444.
92US-00965941.
92US-00976103.
94US-00338352.
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Best Local Similarity 85.7
Matches 12, Conservative
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                   isting"
                                 11. .14
/*tag=
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25-NOV-1992;
14-NOV-1994;
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                                   misc_RNA
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/*tag= a
/mod_base= OTHER
/mote= "5-methyl-2'-deoxycytidine; This base is given as
/note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 2 in the sequence
listing"
                                                                                                                                                                                                                     /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 2 in the sequence
                                                                                                                                                                                                                                                                               /*tag= c
/mod base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
Note the sequence shown as SEQ ID NO: 2 in the sequence
listing"
                                                                                                                                                                                                                                                                                                                                                                 given as
                                                                                                                                                                                                                                                                                                                                                                                                                           /note= "5-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 2 in the sequence listing"

listing"

lil. 15
/ tag= f
/ label= RNA
/ note= "5-(1-propynyl)-2'-deoxyuridine; These bases are given as N in the sequence shown as SEQ ID NO: 2 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                /mod_base= OTHER /note= "5-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 2 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New oligomers useful for binding to DNA duplex target sequence and fo
treating e.g. diseases caused by viruses and inflammatory conditions
comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gutierrez AJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wagner R, Mattencci M,
                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                        'mod base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        91US-00799824.
92US-00935444.
92US-00965941.
92US-00976103.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      96US-00599738.
                                                                                                                                                                                                               *tag= b
                                                                                                                                                                                                                                                          isting"
                                                                                                                                                                                                                                                                                                                                              *tag=
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                                                                                                                                                                                                                                                                                                                                                                                                               *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-535437/57.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Proehler B,
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1016 AAAAGAGGGGAG 1029

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15 AAAAAGAGAGAG 2

RESULT 1701 AAD41855/c ID AAD41855 standard; DNA; 15 BP. XX

Gutierrez AJ;

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The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprises at least three 3.-5. linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one nucleoside comprises a base. Sequence of the invention are useful for binding to a DNA duplex target sequence wit either or or of triplex treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and condulating target gene expression. They are also useful in gene therapy. The present sequence is an oligomicleotide used to generate duplex structures. This sequence is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antisense therapy; infection; cardiovascular disorder; immune reaction; gene therapy; virucide; cytostatic; antibacterial; antiinflammatory; cancer; cardiant; DNA-RNA hybrid; ss.
/mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxycytidine; This base is
given as N in the sequence shown as SEQ ID NO: 5 in the
sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ON-36 oligonucleotide used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.5%; Score 10.8; DB 1; Length 15; llarity 85.7%; Pred. No. 9e+02; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                           Wagner R, Mattencci M, Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 3; Col 39; 106pp; English.
                                                                                                                                                                                                                   91US-00799824.
92US-00935444.
92US-00965941.
92US-00976103.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAD41897 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1016 AAAAAGAGGGGAG 1029
                                                                                                                                                                                  96US-00599738
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                                                                                                                                                                                                                                                                                                                                       (ISIS-) ISIS PHARM INC.
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hes 12; Conserv
                                                                                                                                                                                                                                       25-AUG-1992;
23-OCT-1992;
25-NOV-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                         Froehler B,
                                                                                                       US6380368-B1
                                                                                                                                                                                  12-FEB-1996;
                                                                                                                                              30-APR-2002.
                                                                                                                                                                                                                                                                                                  14-NOV-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 1703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Loca
Matches
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              SXXXXXXXXXXXXX
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                                            The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprise at least three 3'-5' linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodisester linkage and at least one internucleoside linkage is not a phosphodisester linkage and at least one nucleoside comprises a base. Sequences of the invention are useful for binding to a DNA duplex target sequence via either CT or GT triplex helix binding motif and in antisense therapies. They are also used for treating diseases caused by viruses and for disponsitic applications to treating diseases caused by viruses and for disponsitic applications to ancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cancers immune reactions and bacterial infections and for modulating target gene expression. They are also useful in gene triple helix structures. This sequence is used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "5-(1-propynyl)-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 5 in the sequence listing"
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/mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxycytidine; This base is
given as N in the sequence shown as SEQ ID NO: 5 in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense therapy; infection; cardiovascular disorder; immune reaction; gene therapy; virucide; cytostatic; antibacterial; antiinflammatory; cancer; cardiant; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "5-(1-propynyl)-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 5 in the sequence listing"
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0
                                                                                                                                                                                                                                                                                                                                                                                                                0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ON-4 oligonucleotide used to generate duplex structures.
                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
              Example 2; Col 39; 106pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence listing'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 85.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag=
/mod_ba
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modified_base
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cardiovascular disorders, immune reactions and bacterial infections for modulating target gene expression. They are also useful in gene therapy. The present sequence is an oligonucleotide used in the exemplification of the invention
                                                                               Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                          Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mod_base= OTHER
                                                                                                                                                                                                                  BP.
                                                                                                                                  1016 AAAAAGAGGGGAG 1029
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/*tag= f
                                                                                                                                                                                                                  AAD41881 standard; DNA; 15
                                                                                                                                                                                                                                                                 30-OCT-2002 (first entry)
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                                                                                                                                                      15 AAAAAGAGAGAGAG 2
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modified_base
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                                                                                                                                                                                                                                                                                                                                                             Unidentified
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                                                                                                                                                                                                                                         AAD41881;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              misc_RNA
                                                                                                                                                                                           RESULT 1704
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprise at least three 3'-5' linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodiester linkage and at least for binding to a DNA duplex target sequences of the invention are useful for binding to a DNA duplex target sequence via either (T or of triplex helix binding motif and in antisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions,
                                                                                                                                                                                                        given as
sequence
                                                                                                                                                                                                                                                                                                                                     /mod_base= OTHER
/mode= "5-methyl-2'-deoxycytidine; This base is given as
/mote= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 44 in the sequence
11stine
                                          /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 44 in the sequence
listing"
                                                                                                                     note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 44 in the sequence
listing"
                                                                                                                                                                                                                                                                           /note= "5-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 44 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                          /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is
N in the sequence shown as SEQ ID NO: 44 in the
listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gutierrez AJ;
                                                                                                                                                                                                                                                                                                                                                                                               /*tag= f
/label= RNA
/note= "5-(1-propynyl)-2'-deoxyuridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Wagner R, Mattencci M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 18; Col 54; 106pp; English.
               Location/Qualifiers
                                                                                                                                                                                                                                                                  base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   91US-00799824.
92US-00935444.
92US-00965941.
92US-00976103.
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                                                                                                                                                                                                                                                                  /mod
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              Key
modified_base
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                                                                                                                                                                    modified base
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23-OCT-1992;
25-NOV-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                US6380368-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-NOV-1991;
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sequence
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sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 28 in the sequence
listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 28 in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine, This base is given as
N in the sequence shown as SEQ ID NO: 28 in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Antisense therapy, infection, cardiovascular disorder, immune reaction, gene therapy, virucide, cytostatic, antibacterial, antiinflammatory, cancer, cardiant, RNA-DNA hybrid, ss.
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   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                       ON-23 oligonucleotide used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "5-methyl-2'-deoxycytidine, This base is
N in the sequence shown as SEQ ID NO: 28 in the
listing"
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/mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxycytidine; This base is
given as N in the sequence shown as SEQ ID NO: 13 in the
sequence listing"
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in the
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                                                                                              is
ri
                                                                                                                                                                                                                                                           si i
                                                                    /mod_base= OTHER
/note= "5-(1-propymyl)-2'-deoxyuridine; This base
given as N in the sequence shown as SEQ ID NO: 13
sequence listing"
                                                                                                                                                                                                                                                          This base
ID NO: 13
                                                                                                                                                                                                                                                                                                                                                                                                                           This base
ID NO: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This base in ID NO: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This base
ID NO: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gutierrez AJ
               /mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxycytidine"
                                                                                                                                                                                                                            /*tag= e //mod_base= OTHER //mod_base= OTHER //note= "5-(1-propynyl) -2'-deoxyuridine; given as N in the sequence shown as SEQ sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                         /*tag= g
/mod_base= OTHER
/mod_base= (1-propynyl).2'.deoxyuridine;'
given as N in the sequence shown as SEQ
sequence listing"
                                                                                                                                                                                           not\bar{e}= "5" (1"propynyl) - 2' - deoxycytidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "5-(1-propynyl)-2'-deoxyuridine;
given as N in the sequence shown as SEQ
sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mod_base= OTHER
/mod_base= (I-propynyl) -2'-deoxyuridine;
given as N in the sequence shown as SEQ
sequence listing*
                                                                                                                                                                                                                                                                                                                                            /mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxycytidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxycytidine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag= i
/mod_base= OTHER
" [ 1 - nro
                                                                                                                                                                             base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      91US-00799824.
92US-00935444.
92US-00965941.
92US-00976103.
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                                                                U
                                                                                                                                                             b
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Wagner R,
                                                                                                                                                             *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tag=
                                                              *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-535437/57.
                                             base
                                                                                                                                             modified base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-NOV-1991;
25-AUG-1992;
23-OCT-1992;
25-NOV-1992;
14-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US6380368-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-APR-2002.
                                             modified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pudlo J;
The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprise at least three 3.-5. linked mucleosides or their saits. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one nucleoside comprises a base. Sequences of the invention are useful for hinding to a DNA duplex target sequence via either CT or GT triplex helix binding motif and in antisense therapies. They are also used for treating diseases caused by viruses and for disgnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and therapy. The present sequence is an oligomucleotide useful in gene therapy. The present sequence is an oligomucleotide useful in the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "5-(1-propynyl)-2'-deoxyuridine; This base is given as N in the sequence shown as SEQ ID NO: 13 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antisense therapy, infection, cardiovascular disorder, immune reaction, gene therapy; virucide, cytostatic, antibacterial, antiinflammatory;
                                                                                                                                                                                                                                                      New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ON-10 oligonucleotide used to generate triple helix structures.
                                                                                                                                                                           Gutierrez AJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
rative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15 BP; 0 A; 5 C; 0 G; 6 T; 4 U; 0 Other;
                                                                                                                                                                           Jones RJ,
                                                                                                                                                                         Mattencci M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                       Example 15; Col 51; 106pp; English.
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/mod_base= OTHER
                                      91US-00799824.
92US-00935444.
92US-00965941.
92US-00976103.
94US-00338352.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAD41866 standard; RNA; 15 BP
            96US-00599738.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15 AAAAGAGAGAGAG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12; Conservative
                                                                                                                                                                      Froehler B, Wagner R,
                                                                                                                                        (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene therapy, virucid cancer, cardiant, ss.
                                                                                                                                                                                                                       WPI; 2002-535437/57.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
                                                                                       25-NOV-1992;
14-NOV-1994;
          12-FEB-1996;
                                                         25-AUG-1992;
23-OCT-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unidentified
                                         26-NOV-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAD41866;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                       Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 1705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
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The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprises at least three 3'-5' linked nucleosides or their sails. At least comprises at least three 3'-5' linked nucleosides or their sails. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside comprises a base. Sequences of the invention are useful for binding to a LNA duplex target sequence is at else used for treating diseases caused by viruses and for disgnostic applications to treating diseases caused by viruses and for disgnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and cardiovascular disorders, immune reactions and bacterial in gene therapy. The present sequence is an oligomicleotide used to generate the present sequence is used in the exemplification of the internal conditions.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "5-(1-propynyl)-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 47 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note= "5-(1-propynyl)-2'-deoxycytidine, This base is given as N in the sequence shown as SEQ ID NO: 47 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note= "5.(1-propynyl)-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 47 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antisense therapy; infection; cardiovascular disorder; immune reaction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene therapy; virucide; cytostatic; antibacterial; antihflammatory; cancer; cardiant; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ON-39 oligonucleotide used in the exemplification of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                               / Match 0.5%; Score 10.8; DB 1; Length 15; Local Similarity 85.7%; Pred. No. 9e+02; Los 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP, 0 A, 5 C, 0 G; 0 T, 10 U, 0 Other;
comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                    Example 6; Col 41; 106pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *tag= c
/mod base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAD41900 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1016 AAAAAGAGGGGAG 1029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-OCT-2002 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       modified base
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                                                                                                                                                                                                                                                                                                                                                        the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAD41900;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAD41900,
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The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprises at least three 3-5' linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one hulleoside comprises a base. Sequences of the invention are useful for binding to a DNA duplex target sequence the aither of or of triplex of theix binding motif and in antisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and therapy. The present sequence is an oligonucleotide useful in gene therapy. The present sequence is an oligonucleotide used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ô
                                           /mode= "5-(1-propynyl) -2'-deoxycytidine; This base is
given as N in the sequence shown as SEQ ID NO: 47 in the
sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense therapy, infection, cardiovascular disorder, immune reaction, gene therapy, virucide, cytostatic; antibacterial; antiinflammatory; cancer, cardiant, RNA-DNA hybrid; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                           New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ô
                                                                                                                                                                                                                                                                                                                                                             Gutierrez AJ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  / Match 0.5%; Score 10.8; DB 1; Length 15; Local Similarity 85.7%; Pred. No. 9e+02; nes 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                             Jones RJ,
                                                                                                                                                                                                                                                                                                                                                             Froehler B, Wagner R, Mattencci M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 18; Col 54; 106pp; English.
                              base= OTHER
                                                                                                                                                                                                                                    92US-00935444.
92US-00965941.
92US-00976103.
94US-00338352.
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               /*tag=
/mod_ba
                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-535437/57.
modified_base
                                                                                                                                                                                                                                      25-AUG-1992;
23-OCT-1992;
25-NOV-1992;
                                                                                                                   US6380368-B1
                                                                                                                                                                                     12-FEB-1996;
                                                                                                                                                                                                                         26-NOV-1991;
                                                                                                                                                                                                                                                                                         14-NOV-1994;
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                                                                                                                                                     30-APR-2002.
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                                                                                                                                                                                                                                                                                                                                                                                  Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 1707
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The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprises at least three 3.-5. linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one nucleoside comprises a base. Sequence of the invention are useful for including motif and in anisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and charactular disorders, immune reactions and bacterial infections and therapy. The present sequence is an oligomicleotide used to generate therapy. The present sequence is used in the exemplification of the construction of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 9 in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense therapy, infection; cardiovascular disorder; immune reaction; gene therapy; virucide; cytostatic; antibacterial; antiinflammatory; cancer; cardiant; RNA-DNA hybrid; ss.
                                                                                                                                                                                                                                                 New oligomers useful for binding to DNA duplex target sequence and fo
treating e.g. diseases caused by viruses and inflammatory conditions
comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                        Gutierrez AJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ON-7 oligonucleotide used to generate triple helix structures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Seguence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
                                                                                                                                                      Wagner R, Mattencci M, Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                  Example 2; Col 39; 106pp; English.
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/mod_base= OTHER
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                  92US-00935444.
92US-00965941.
92US-00976103.
94US-00338352.
  91US-00799824
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAD41862 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
Best Local Similarity 85.77
Matches 12, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15 AAAAAGAGAGAGAG
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                                                                                                                 (ISIS-) ISIS PHARM INC
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modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           modified_base
                  25-AUG-1992;
23-OCT-1992;
25-NOV-1992;
                                                                                                                                                      Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unidentified
                                                                            14-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAD41862;
                                                                                                                                                                           Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 1708
AAD41862/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mod_base= OTHER
/bote= "Optionally 5-(1-propynyl)-2'-deoxyuridine or 5-(3
methyl-1-butynyl) uracil; This base is given as N in the
sequence shown as SEQ ID NO: 3 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "5-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 3 in the sequence listing"
                                                                                                                                                                                                                                                                                                                            /mod_base= OTHER
/note= "5-mechyl-2'-deoxycytidine; This base is given as
/note= "5-mechyl-2'-deoxycytidine; This base is given as
// in the sequence shown as SEQ ID NO: 3 in the sequence
// 1.15
                                                                                                             note= "5-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 3 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note = "5-methyl-2'-deoxycytidine; This base is given as in the sequence shown as SEQ ID NO: 3 in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "5-(1-propyny1)-2'-deoxyuridine; This base is given as N in the sequence shown as SEQ ID NO: 3 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= i
/mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxyuridine; This base is
given as N in the sequence shown as SEQ ID NO: 3 in the
sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mod_base= OTHER
/mod= "5-(1-propynyl)-2'-deoxyuridine; This base is
given as N in the sequence shown as SEQ ID NO: 3 in the
sequence listing"
                                                                                                                                                                                                                             /note= "5-(1-propynyl)-2'-deoxyuridine; This base is given as N in the sequence shown as SEQ ID NO: 3 in the sequence listing"
                                       Location/Qualifiers
                                                                                               base= OTHER
                                                                                                                                                                                                              base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *tag= e
mod_base= OTHER
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/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                               *tag= c
label= RNA
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/mod_base=
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                                                                                                                                                                                            *tag= b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     listing'
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modified_base
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Unidentified
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Gaps

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Indels

2;

Conservative

12;

Matches

Best Local Similarity

schultz451-1.rng

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The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprises at least three 3.-5. linked nucleosides or their sailts. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage. Sequences of the invention are useful for binding to a DNA duplex target sequence via either or or off triplex helix binding until and in antisense therapies. They are also used for treating diseases caused by viruses and for disgnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and candulating target gene expression. They are also useful in gene therapy. The present sequence is an oligomicleotide used to generate triple helix structures. This sequence is used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                           /*tag= f
//abel= RNA
/note= "5-(3-methyl-1-butynyl) uracil; This base is given
as N in the sequence shown as SEQ ID NO: 9 in the
sequence listing"
'note= "5-methyl-2'-deoxycytidine, This base is given as
'in the sequence shown as SEQ ID NO: 9 in the sequence
.isting"
                                                                     /*tag= c
/mod_base= OTHER
/note= "5-methy1-2'-deoxycytidine; This base is given as
% in the sequence shown as SEQ ID NO: 9 in the sequence
listing"
                                                                                                                                                                                                                                                                         /*tag= e/mod_base= OTHER/
/mod_base= OTHER/
/note= "5-methyl-2'-deoxycytidine; This base is given as
N.in the sequence shown as SEQ ID NO: 9 in the sequence
                                                                                                                                                                                      /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
N in the sequence shown as SEQ ID NO: 9 in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wagner R, Mattencci M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 5; Col 40; 106pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             91US-00799824.
92US-00935444.
92US-00965941.
92US-00976103.
94US-00338352.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                96US-0059973B
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[1. .15
                                                                                                                                                                                                                                            isting"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-NOV-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-AUG-1992
23-OCT-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-APR-2002
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                                                                                                                                                                                                                                                                                                                                                           misc RNA
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Gutierrez AJ;

DB 1; Length 15;

0.5%; Score 10.8;

Query Match

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/*tag= b/mod_base= OTHER/note= "S-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID'NO: 29 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      given as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /*tag= e
/mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine; This base is given as
/note= "5-methyl-2'-deoxycytidine; This base is given as
// In the sequence, shown as SEQ ID NO: 29 in the sequence
                                                                                                                                                                                                                                                                                                                      /note= "5-methyl-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 29 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                       mod_base= OTHER
note= "5-methyl-2'-deoxycytidine; This base is given as
in the sequence shown as SEQ ID NO: 29 in the sequence
                                                                                                                                                                                                        Antisense therapy, infection, cardiovascular disorder, immune reaction, gene therapy, virucide, cytostatic, antibacterial, antiinflammatory, cancer, cardiant, 88.
             Gaps
                                                                                                                                                                                   ON-24 oligonucleotide used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tag= d
/mod_base= OTHER
/mode= "5-methyl-2'-deoxycytidine; This base is
/note= "5-methyl-2'-deoxycytidine; This base is
N in the sequence shown as SEQ ID NO: 29 in the
listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag= f
mod base= OTHER
mod base= "3'-thioformacetal linkage (3',5')"
13. ..4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /mod_base=.OTHER
/note= "3'-thioformacetal linkage (3',5')"
85.7%; Pred. No. 9e+0
                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                      J= a
base= OTHER
                                                                                                 AAD41882/c
ID AAD41882 standard; DNA; 15 BP.
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92US-00935444.
92US-00965941.
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                                 1016 AAAAGAGGGGGAG 1029
                                                                                                                                                           (first entry)
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1. .12
                                                       15 AAAAAGAGAGAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         isting'
                                                                                                                                                                                                                                                                                                     *tag=
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modified_base
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25-AUG-1992;
23-OCT-1992;
                                                                                                                                                                                                                                                       Unidentified
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1016 AAAAAGAGGGGAG 1029
         listing'
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                                                                                                                                                                                                                                                                                                                                 modified base
                             modified base
                                                                                                                                                                            modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-NOV-1992;
14-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Froehler B,
Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-NOV-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-AUG-1992;
23-OCT-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-APR-2002
         à
                                                                                                                                                                                                                                                                                                                                        The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprise at least three 3-5 linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodicaster linkage and at least one internucleoside comprises a base. Sequences of the invention are useful for inhinging to a DNA duplex target sequence via either CT or GT triplex helix binding motif and in antisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and therapy. The present sequence is an oligomucleotide used in the exemplification of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Antisense therapy, infection, cardiovascular disorder, immune reaction, gene therapy, virucide, cytostatic; antibacterial; antiinflammatory; cancer, cardiant, ss.
                                                                                                                                                                                                                 New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mod_base= OTHER
/note= "Optionally 5-methyl-2'-deoxycytidine or 5-(1-
propynyl)-2'-deoxycytidine, This base is given as N in
the sequence shown as SEQ ID NO: 1 in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note= "Optionally 5-methyl-2'-deoxycytidine or 5-(1-propyryl)-2'-deoxycytidine; This base is given as N in the sequence shown as SEQ ID NO: 1 in the sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                              Gutierrez AJ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                            Mattencci M, Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                      Example 15; Col 51; 106pp; English.
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/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAD41854 standard; DNA; 15 BP.
92US-00976103
94US-00338352
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                                                                                                            Wagner R,
                                                                (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mod
                                                                                                                                                                       WPI; 2002-535437/57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified base
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25-NOV-1992;
14-NOV-1994;
                                                                                                         Froehler B,
Pudlo J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unidentified
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The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprise at least three 3'-5' linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one nucleoside comprises a base. Sequences of the invention are useful for hinding motif and in artisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections and for diagnostic applications to detect viral infections and solved as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and conditions the present sequence is an oligomicleotide used to generate therapy. The present sequence is used in the exemplification of triple helix structures. This sequence is used in the exemplification of
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/mod_base= OTHER
/note= "Optionally 5-methyl-2'-deoxycytidine or 5-(1-
propynyl)-2'-deoxycytidine; This base is given as N in
prosporte sequence shown as SEQ ID NO: 1 in the sequence
listing"
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/mod_base= OTHER
/note= "Optionally 5-methyl-2'-deoxycytidine or 5-(1-
propynyl)-2'-deoxycytidine; This base is given as N ir
the sequence shown as SEQ ID NO: 1 in the sequence
                                                                                                                                                                                                                                             /*tag= d
/mod_base= OTHER
/mode= "Optionally 5-methyl-2'-deoxycytidine or 5-(1-
propynyl)-2'-deoxycytidine; This base is given as N in
listing"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wagner R, Mattencci M, Jones RJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 91US-00799824.
92US-00935444.
92US-00965941.
92US-00976103.
94US-00338352.
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Best Local Similarity 85.7°
Matches 12, Conservative
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96US-00599738

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12-FEB-1996;
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                                                                                                                                                            Antisense therapy, infection, cardiovascular disorder, immune reaction, gene therapy, virucide, cytostatic, antibacterial, antiinflammatory, cancer, cardiant, ss.
                                                                                                                                                                                                                                                  1. .15
/*tag= a
//otce="All the bases are given as N in the sequence
shown as SEQ ID No: 7 in the sequence listing"
                                                                                                                                     ON-5 oligonucleotide used to generate triple helix structures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine"
11. .15
/*tag= 1
/mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxyuridine"
                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= d
/mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxyuridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag= j
/mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxyuridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'note= "5-(1-propynyl)-2'-deoxyuridine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'note= "5-(1-propynyl)-2'-deoxyuridine"
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| note= "5-(1-propynyl)-2'-deoxyuridine
                                                                                                                                                                                                                                                                                                                                                                                          note = "5-methyl-2'-deoxycytidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note = "5-methyl-2'-deoxycytidine"
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/mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag= i
/mod_base= OTHER
/note= "5-methyl-2'-deoxycytidine"
                                                                                                                                                                                                                                      cocation/Qualifiers
                                                                                                                                                                                                                                                                                                                 *tag= b
mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                *tag= c
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= h
/mod base= OTHER
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/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag= f
/mod_base= OTHER
                                                             AAD41860 standard; RNA; 15 BP.
                                                                                                             (first entry)
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15 AAAAAGAGAGAGAG
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                                                                                                             30-OCT-2002
                                                                                                                                                                                                                                                    misc_feature
                                                                                                                                                                                                               Unidentified
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                                                                                     AAD41860;
                                     RESULT 1711
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30-APR-2002

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The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprises at least three 3.-5. linked nucleosides or their saits. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside longrises a base. Sequences of the invention are useful one nucleoside comprises a base. Sequences of the invention are useful that binding motif and in attisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and to modulating target gene expression. They are also useful in gene therapy. The present sequence is used in the exemplification of triple helix structures. This sequence is used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antisense therapy, infection, cardiovascular disorder, immune reaction, gene therapy, virucide, cytostatic, antibacterial, antiinflammatory, cancer, cardiant, ds.
                                                                                                                                                                                                                                                                                                                                          New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                                                                                                                                                                                               Gutierrez AJ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Target DNA #3 used in the exemplification of the invention.
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                                                                                                                                                                                                               Wagner R, Mattencci M, Jones RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 4; Col 39; 106pp; English.
91US-00799824.
92US-00935444.
92US-00965941.
92US-00976103.
94US-00338352.
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                                                                                                                                                           (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                        WPI; 2002-535437/57.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the invention
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                                                                                                                                                                                                             Froehler B,
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25-AUG-1992;
                                                                             25-NOV-1992;
14-NOV-1994;
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                           25-AUG-1992
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                                                                                                                                                                                                                                      Pudlo J;
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Froehler B,

Pudlo J;

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The present invention describes a method for detecting mutations associated with anti-HIV drug resistance in a patient by detecting at least case one of the mutations K103N/R, V106A/IL, Y181C/I, M184V/I, Y188L, C190A/S/R, T215Y/F/D/S/A and/or O151M/L in the reverse transcriptase (RT) of HIV strains in a biological sample using a specific set of probes optimised to function together in a reverse-hybridisation assay. The method and the nucleic acid sequences used in the method are useful for determining viral mutations and/or polymorphisms in the HIV RT gene associated with resistance. The probes are useful for the genetic detection, preferably in vitro detection of the mutations K103N/R, V106A/IL, V181C/I, Q151M/L, M184V/I, Y188L, G190A/S/R and/or mutation is associated with anti-HIV drug resistance. The method provides a rapid, reliable and precise assay or determination and monitoring of arriving reliance and process assay or determination and monitoring of arrivinsal drug resistance or mutations associated with drug resistance of viruses containing RT genes. ARZ33759 to ABZ34642 represent HIV RT securing the exemplification of the present
                                                                                             Detecting mutations associated with anti-HIV drug resistance comprises detecting at least one of the mutations in the HIV reverse transcriptase gene by using probes optimized to function together in a reverse-hybridization assay.
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detection; mutation; anti-HIV drug resistance; polymorphism; resistance;
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85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 3 A; 5 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                         Claim 2; Page 29; 117pp; English.
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20-APR-2001; 2001EP-00870085.
24-APR-2001; 2001US-0286102P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1212 GGGGGCTGACCCCA 1225
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 GGGGGCTTACCACA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12; Conservative
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       Stuyver L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-590680/63.
                                                      WPI; 2002-590680/63.
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       De Smet K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABZ34221;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
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       #X#X#####X#X######
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprise at least three 3-5. Innked nucleosides or their salts. At least one internucleoside linkage is not a phosphodiester linkage and at least one internucleoside linkage is not a phosphodiester linkage and at least one nucleoside comprises a base. Sequence of the invention are useful for inhaling to a DNA duplex target sequence via either CT or GT triplex helix binding motif and in antisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and the invention the present sequence is a target DNA used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               o'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human immunodeficiency virus; HIV; reverse transcriptase; RT; enzyme; detection; mutation; anti-HIV drug resistance; polymorphism; resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                  New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HIV-1 reverse transcriptase mutation detection probe SEQ ID NO:880.
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                                                                                                                                                Gutierrez AJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 10 A; 0 C; 5 G; 0 T; 0 U; 0 Other;
                                                                                                                                                Jones RJ,
                                                                                                                                                Wagner R, Mattencci M,
                                                                                                                                                                                                                                                                                                                                                               Example 6; Col 41; 106pp; English.
92US-00965941.
92US-00976103.
94US-00338352.
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20-APR-2001; 2001EP-00870085.
24-APR-2001; 2001US-0286102P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human immunodeficiency virus Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 85.7'
Matches 12; Conservative
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                                                                                             (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                    WPI; 2002-535437/57
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23-OCT-1992;
25-NOV-1992;
14-NOV-1994;
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18-JUL-2002

probe; ss

ABZ34638

RESULT 1713 ABZ34638

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The present invention describes a method for detecting mutations associated with anti-HIV drug resistance in a patient by detecting at least one of the mutations K103N/R, V106A/IL, V18LCI, M18HV/I, Y18EL, C190A/S/R, T215Y/F/D/S/A and/or O151M/L in the reverse transcriptase (RT) of HIV strains in a biological sample using a specific set of probes of HIV strains in a biological sample using a specific set of probes of HIV strains in a biological sample using a specific set of probes of HIV strains in a biological sample using a specific set of probes of HIV strains in a biological sample in the HIV RT generated with resistance. The probes are useful for the genetic detection, preferably in vitro detection of the mutations K103N/R, V106A/IL, Y18IC/I, O151M/L, M184V/I, Y18BL, G190A/S/R and/or T21SY/F/D/SAA in the RT of HIV strains in a biological sample, where the mutation is associated with anti-HIV drug resistance. The method provides a rapid, reliable and precise assay or determination and monitoring of arbidiates and probes which are used in the exemplification of the present sequences and probes which are used in the exemplification of the present
            Detecting mutations associated with anti-HIV drug resistance comprises detecting at least one of the mutations in the HIV reverse transcriptase gene by using probes optimized to function together in a reverse-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 3 A; 4 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vogelstein B, Kinzler KW, Zhang L, Zhou W;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human pancreatic cancer SAGE tag #66.
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                                                                                                              Claim 2; Page 29; 117pp; English.
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                                                                           hybridization assay
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The invention relates to an isolated, purified human nucleic acid (I) that has the same sequence as a mRNA found in humans and is a SAGE (serial analysis of gene expression) tag comprising a single stranded probe containing at least 10 consecutive nucleotides. SAGE tags, are diagnostic and prognostic markers of cancer, especially of the colon and pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
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                                                                                                                                                                          0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
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                                                                                                                                         Sequence 15 BP; 3 A; 9 C; 1 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zhou W;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vogelstein B, Kinzler KW, Zhang L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Col 17; 161pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human colon cancer SAGE tag #79.
                                                                                                                                                                                                                                                                                                                                                                       ABK31978 standard; DNA; 15 BP
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                                                                                                                                                                                                                                                1254 CATCCCCAACCCCC 1267
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                                                                                                         SAGE tags of the invention
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nes 12; Conservative
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The invention relates to an isolated, purified human nucleic acid (I) that has the same sequence as a mRNA found in humans and is a SAGE (serial analysis of gene expression) tag comprising a single stranded probe containing at least 10 consecutive nucleotides. SAGE tags, are diagnostic and prognostic markers of cancer, especially of the colon and pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer.
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serial analysis of gene expression; diagnostic; prognostic; probe;
cancer marker; ss.
                                                                                                                                                                                              New human nucleic acid containing specific SAGE tags, useful as diagnostic markers for cancer, also derived probes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 BP; 7 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
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Pred. No. 9e+02;
0; Mismatches 2;
                                                                                                                              Zhou W;
                                                                                                                            Zhang L,
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                                                                                                                                                                                                                                                         Disclosure, Col 93; 161pp; English
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                   98US-00081646.
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                                                                                       (UYJO ) UNIV JOHNS HOPKINS
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                 20-MAY-1998;
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Matches
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serial analysis of gene expression, diagnostic, prognostic, probe,
cancer marker, ss.
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                                                                                                                                        Human colorectal and pancreatic cancer SAGE tag #80.
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85.7%; Pred. No. 9e+0
iive 0; Mismatches
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                           ABK32713 standard; DNA; 15
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WPI; 2002-153821/20.

serial analysis of cancer marker; ss.

ABK32713;

RESULT 1717

ABK3271;

US6333152-B1. Homo sapiens

20-MAY-1998; 20-MAY-1998;

25-DEC-2001

Local Similarity es 12; Conserv

Matches

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ABK32751;

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Homo sapiens US6333152-B1 25-DEC-2001

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RESULT 1720

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The invention relates to an isolated, purified human nucleic acid (I) that has the same sequence as a mRNA found in humans and is a SAGB serial analysis of gene expression) tag comprising a single stranded probe containing at least 10 consecutive nucleotides. SAGE tags, are diagnostic and prognostic markers of cancer, especially of the colon and pancreas. ABKX1900-ABXX2770 represent human colon and pancreatic cancer SAGE tags of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Probe, polymorphism detection, mutation detection, disease diagnosis, microbial identification, ss.
                                                                                                                                       Human, colon cancer, colorectal cancer, pancreatic cancer, SAGE tag; serial analysis of gene expression, diagnostic; prognostic; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New human nucleic acid containing specific SAGS tags, useful as diagnostic markers for cancer, also derived probes.
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85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zhang L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Probe z for assaying nucleic acids.
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                                                                                                        Human colon cancer SAGE tag #546.
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                                                                   23-APR-2002 (first entry)
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                                                                                                                                                                                    cancer marker; ss.
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                                                                                                                                                                                                                          Homo sapiens.
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                               ABK32445;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to an isolated, purified human nucleic acid (I) that has the same sequence as a mRNA found in humans and is a SAGE (serial analysis of gene expression) tag comprising a single stranded probe containing at least 10 consecutive nucleotides. SAGE tags, are diagnostic and prognostic markers of cancer, especially of the colon and pancreas. ABKG1900-ABK23770 represent human colon and pancreatic cancer SAGE tags of the invention
probe containing at least 10 consecutive nucleotides. SAGE tags, are diagnostic and prognostic markers of cancer, especially of the colon and pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer SAGE tags of the invention
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                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human, colon cancer, colorectal cancer, pancreatic cancer, SAGE tag, serial analysis of gene expression, diagnostic, prognostic, probe,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New human nucleic acid containing specific SAGE tags, useful as
diagnostic markers for cancer, also derived probes.
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                                                                                                                                            Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 7 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
                                                                                                     Sequence 15 BP; 2 A; 8 C; 3 G; 2 T; 0 U; 0 Other;
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Best Local Similarity 85.7%; Pred. No. 9e+u.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human colon cancer SAGE tag #223.
                                                                                                                                                                                                                                                                                                                                                              ABK32122 standard; DNA; 15 BP.
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                                                                                                                                                                                                                          1193 AGGTGGCACCACCC 1206
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cancer marker; ss.
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27-UN-2000; 2000JP-00193133.

ABK32445 standard; DNA; 15 SP.

RESULT 1721

à 9 ABK32445 ID ABK3

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                                                                                                                                                                          Fluorescently-labeled nucleic acid probes for assaying nucleic acids and their polymorphism and mutation, particularly useful in science and medicine for e.g. analytical applications, disease diagnosis and microbial identification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection; HCV ribozyme; HCV expression; HCV replication; cirrhosis; virucide; liver failure; hepatocellular carcinoma; HCV infection; drug therapy; type I interferon; interferon alpha; interferon beta; cytostatic; interferon gamma; consensus interferon; hepatotropic; autiinflammatory; substrate; hammerhead ribozyme; HH ribozyme; ss.
                                                                                              Kamagata Y, Torimura M, Kurata S, Yamada K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hepatitis C virus substrate #385 for HCV hammerhead ribozyme #385.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15 BP; 0 A; 9 C; 0 G; 6 T; 0 U; 0 Other;
                                               (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY
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                                                                                                                                                                                                                                                            Example 14; Page 64; 152pp; Japanese.
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03-AUG-2000; 2000JP-00236115.
26-SEP-2000; 2000JP-00292483.
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ABX00603 standard; RNA; 15
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                                                              KANK-) KANKYO ENG CO LID
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les 12; Conservative
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MCSWIGGEN J A.
ROBERTS B.
PAVCO P A.
MACEJACK D.
                                                                                              Kanagawa T,
                                                                                                                                              WPI; 2002-195876/25.
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                                                                                              Kurane R, F
Yokomaku T;
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(MCSW/)
(ROBE/)
(PAVC/)
(MACE/)
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The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV ribozymes are useful for modulating the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or replication of hepatocellular carcinoma. The HCV ribozymes are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon. The present sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note: Some of the sequence data for this patent did not form part of the printed specification. The complete sequence data for this patent was obtained in electronic format directly from the USPTO web site at
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                                                              New ribozymes targeting RNA derived from hepatitis C virus inhibit vireplication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hepatitis C virus substrate #300 for HCV hammerhead ribozyme #300.
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Roberts B, Pavco PA, Macejack
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Seguence 15 BP; 0 A; 8 C; 4 G; 0 T; 3 U; 0 Other;
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                                                                                                                                    Claim 1; Page 32; 80pp; English.
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Best Local Similarity 85.7%
Marches 12; Conservative
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 Blatt L, Mcswiggen JA,
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MCSWIGGEN J A.
ROBERTS B.
PAVCO P A.
MACEJACK D.
                                 WPI; 2002-617759/66.
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(PAVC/) H
(MACE/) N
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                                                                                        The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV cribozymes are useful for modulating the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or replication of hepatocellular carcinoma. The HCV ribozymes are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon, especially interferon alpha, beta or gamma or consensus interferon. The present sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note: Some of the sequence data for this patent was potation and electronic format directly from the USPFO web site at
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                     New ribozymes targeting RNA derived from hepatitis C virus inhibit vireplication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.
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                                                                                                                                                                                                                                                                              seqdata.uspto.gov/psipsDIDEntry.html
                                                                      Claim 1; Page 29; 80pp; English
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                                                                                                                                                                                                                                                                                                                                                    11; Conservative
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ROBERTS B.
PAVCO P A.
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                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hepatitis C virus
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(MCSW/) N
(ROBE/) F
(PAVC/) I
(MACE/) N
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The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The cargymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin (HP) motif where the binding arms comprises sequences complementary to one of the substrate sequences defined in the specification. The HCV control of the substrate sequences defined in the specification. The HCV control of the vertical or modulating the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or replication of hepatocellular carcinoma. The HCV ribozymes are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon. The present of interferon alpha, beta or gamma or consensus interferon. The present sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note: Some of the sequence data for this patent did not form part of the printing obtained in electionic format directly from the USPTO web site at
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New ribozymes targeting RNA derived from hepatitis C virus inhibit viral replication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.
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replication and are useful to treat hepatitis C virus infections and
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                                                                                                                                                Claim 1; Page 40; 80pp; English.
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Best Local Similarity 85.7
Matches 12; Conservative
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ROBERTS B.
PAVCO P A.
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(MCSW/) MCSWIGGEN J P
(ROBE/) ROBERTS B.
(PAVC/) PAVCO P A.
(MACE/) MACEJACK D.
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The present invention relates to enzymatic nucleic acids which concerns and construction to the present invention relates to enzymatic nucleic acid or ribozyme is in a hammerhead (HHV). The concentration nucleic acid or ribozyme is in a hammerhead (HH) or hairpin of the substrate sequences defined in the specification. The HCV of the substrate sequences defined in the specification. The HCV they can be useful for modulating the expression and/or replication of HCV They can be used to treat cirrhosis, liver failure and/or cheptocallular carcinoma. The HCV ribozymes are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon. The present connection alpha, beta or gamma or consensus interferon. The present sequence represents a substrate for a HCV hammerhead (HH) riboxyme. Note: Some of the sequence data for this patent did not form part of the complete sequence data for this patent was consensus interferor alpha present consensus interferor alpha present consensus interferor consensus consensus interferor consensus c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New ribozymes targeting RNA derived from hepatitis C virus inhibit viral replication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.
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Claim 1; Page 48; 80pp; English.
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ROBERTS B.
PAVCO P A.
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(ROBE/) H
(PAVC/) H
(MACE/) N
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Matches
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                                                                                                                                                                                       The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The cargumetic nucleic acid or ribozyme is in a harmerhead (HH). The cargumetic nucleic acid or ribozyme is in a harmerhead (HH). The cargumetic nucleic acid or ribozyme is complementary to one of the substrate sequences defined in the specification. The HCV to or the cargumes are useful for modulating the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or hepatocellular carcinoma. The HCV ribozymes are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon, especially interferon alpha, beta or gamma or consensus interferon. The present sequence represents a substrate for a HCV harmmerhead (HH) ribozyme. Note: Some of the sequence data for this patent was obtained in electronic format directly from the USPTO web site at
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           cirrhosis, liver failure or hepatocellular carcinoma.
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                                                                                                         Claim 1; Page 46; 80pp; English.
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(MCSW/) MCSWIGGEN J A.
(ROBE/) ROBERTS B.
(PAVC/) PAVCO P.A.
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pecifically cleave RNA derived from Hepatitis C virus (HCV). The enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV cone is useful for modulating the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or hepatocellular carcinoma. The HCV ribozymes are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon, especially interferon alpha, beta or gamma or consensus interferon. The present sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note: Some of the sequence data for this patent did not form part of the printed specification. The complete sequence data for this patent was obtained in electronic format directly from the USPTO web site at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection; HCV ribozyme; HCV expression; HCV replication; cirrhosis; virucide; liver failure; hepatocellular carcinoma; HCV infection; drug therapy; type I interferon; interferon alpha; interferon beta; cytostatic; interferon gamma; consensus interferon; hepatocropic; antiinflammatory; substrate; hammerhead ribozyme; HH ribozyme; ss.
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enzymatic nucleic acids which
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present invention relates to
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ROBERTS B.
PAVCO P A.
MACEJACK D.
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enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV ribozymes are useful for modulating the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or replication bepatocellular carcinoma. The HCV ribozymes are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon, especially interferon alpha, beta or gamma or consensus interferon. The present sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note: Some of the sequence data for this patent did not form part of the published specification. The complete sequence data for this patent was obtained in electronic format directly from the USPTO web site at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention provides the human neuropeptide Y (NPY) gene and single nucleotide polymorphisms (SNPs) identified therein. The sequence can be used in the treatment of disorders associated with NPY, including atherosclerosis, obesity, psychological disorders and alcoholism. The present sequence is an allele specific probe used to isolate the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New genetic variants of the human Neuropeptide Y (NPY) gene useful for treating disorders affected by abnormal expression or function of NPY isogene e.g., atherosclerosis or obesity.
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                                                                                                                                                                                                                                                                                                                  0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; tive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human neuropeptide Y allele specific probe SEQ ID NO: 11
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                                                                                                                                                                                                                                                     seqdata.uspto.gov/psipsDIDEntry.html
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Best Local Similarity
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nes 12; Conserv
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New ribozymes targeting RNA derived from hepatitis C virus inhibit viral replication and are useful to treat hepatitis C virus infections and cirrhosis, liver failure or hepatocellular carcinoma.

Macejack D;

Pavco PA,

Roberts B,

Mcswiggen JA,

Blatt L,

WPI; 2002-617759/66.

The present invention relates to enzymatic nucleic acids which specifically cleave RNA derived from Hepatitis C virus (HCV). The

Claim 1; Page 43; 80pp; English

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Human; single nucleotide polymorphism; nucleic acid typing;
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                                                                                                                                                                   WPI; 2002-713314/77.
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                     Homo sapiens.
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Matches 12;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; CYP7A1; hepatotropic; antilipaemic; cholesterol disorder;
cirrhosis; bile disorder; hypertriglyceridaemia; hypercholesterolaemia;
                                                                                                                                                                                                                                                                                                                                                                                         New genetic variants of the human Neuropeptide Y (NPY) gene useful for treating disorders affected by abnormal expression or function of NPY isogene e.g., atherosclerosis or obesity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
 Gaps
                                                                                                                                                                          Human, neuropeptide Y, NPY, isogene; SNP; atherosclerosis; obesity; psychological disorder; single nucleotide polymorphism; alcoholism; antiarteriosclerotic; anorectic; probe; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ch 0.5%; Score 10.8; DB 1; Length 15; 1 Similarity 85.7%; Pred. No. 9e+02; 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                Stephens JC;
                                                                                                                                                        Human neuropeptide Y allele specific probe SEQ ID NO: 18.
Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human CYP7A1 allele-specific oligonucleotide primer #28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 4 A; 7 C; 2 G; 2 T; 0 U; 0 Other;
7
                                                                                                                                                                                                                                                                                                                                                 Nandabalan K,
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 11; Page 16; 80pp; English.
ó;
                                                                                                                                                                                                                                                                                                                                                 Lanz EM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP.
                                                                                           AAL48094 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                              (GENA-) GENAISSANCE PHARM INC.
                                                                                                                                                                                                                                                                                                        21-DEC-2000; 2000WO-US034758.
                                                                                                                                                                                                                                                                                    21-DEC-2000; 2000WO-US034758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1255 ATCCCCAACCCCT 1268
                   1254 CATCCCCAACCCCC 1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABV99196 standard; DNA; 15
                                 1 CAGCCCATCCCC 14
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                                                                                                                                    (first entry)
12; Conservative
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                                                                                                                                                                                                                                                                                                                                                 Denton RR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NPY coding sequence
                                                                                                                                                                                                                                           WO200251857-A1.
                                                                                                                                    27-SEP-2002
                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-JAN-2003
                                                                                                                                                                                                                                                                04-JUL-2002,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
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                                                                                                                                                                                                                                                                                                                                                 Chew A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 1732
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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                                                                      RESULT
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The invention relates to a novel polymorphic variant of a sequence of CYPA1 protein or its fragment. The polymorphic wariants are useful in studying the expression and function of CYP7A1, in expressing CYP7A1 protein for use in screening candidate drugs to treat diseases related to CYP7A1 activity, in studying the binding affinity of candidate drugs to reset of cardidate drugs targeting cYP7A1 for the treatment of disorders such as cholesterol and bile disorders. Haplotyping methods are useful in validating CYP7A1 as a candidate target for treating a specific condition or disease predicted to associated with CYP7A1 activity, or in the dealing of candidate drugs for treating a specific condition or disease by second with CYP7A1 activity, or in the dealing of candidate drugs for treating a specific condition or disease associated with CYP7A1 activity, such as cirrhosis, familial trials of candidate drugs for treating a cirrhosis, familial and also useful for studying expression of the CYP7A1 isogenes in vivo, for in vivo screening and testing of drugs targeted against CYP7A1 protein, and the sting the efficacy of therspeutic agents and compounds related to cholesterol and bile acid metabolism. The present sequence represents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New cytochrome P450 subfamily VIIA (cholesterol 7 alphamonooxygenase) polypeptide 1 gene variants, useful for studying the expression and activity of CYP7A1 and screening drugs for treating disorders of cholesterol and bile metabolism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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12; Conservative 0; Mismatches 2; Indels
cytochrome P450, subfamily VIIA, polypeptide 1; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 7 A; 2 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Stephens JC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Α,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 16; Page 22; 84pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            detect CYP7A1 gene polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nandabalan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                               31-JAN-2001; 2001WO-US003164.
                                                                                                                                                                                                                                                                                                                                                      31-JAN-2001; 2001WO-US003164.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   806 ACTGTAAGAAAGC 819
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A triple-helix comprising a double helical nucleic acid (DHNA) and an oligonucleotide which binds in parallel and anciparallel orientation, respectively, for targetting sequences on alternate strands of DHNA to control gene expression.

Beal PA;

Dervan PB,

WPI; 2002-536030/57

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The invention relates to a novel method for obtaining typing information about several variable sites within target nucleic acid, or typing one or more nucleic acid molecules. The methods of the invention are useful for typing one or more nucleic acid molecules containing two or more variable sites, preferably nucleic acid molecules containing two or more variable variable sites are typed, where three or more primer excension reactions are performed. The method is also useful for diagnosis of pathological conditions characterized by the presence of specific nucleic acid molecule(s). The methods are particularly suited for identifying microbial species or their subtypes, and in typing procedures e.g. typing of polymorphisms, tissue typing or in clinical applications. The sequence of the particularly useful to the cytochrome P450 gene superfamily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Triple-helix formation; purine-rich target sequence; double-helix DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene expression; regulatory sequence; pathogenic double-stranded DNA; pathogenic bacteria; virus; replication; virulence; cancer; oncogene suppression; cancerous cell; cytostatic; antimicrobial; ss.
                                                                                                                                                                                                                                                    Typing nucleic acid for obtaining information about several variable sites involves simultaneously or sequentially performing two or more primer extension reactions, and determining the pattern of nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 10.8; DB 1; Length 15; Pred. No. 9e+02; 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seguence 15 BP; 2 A; 10 C; 1 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (CALY ) CALIFORNIA INST OF TECHNOLOGY.
                                                                                                                 PYROSEQUENCING AB.
UNIV LELAND STANFORD JUNIOR.
GARDNER R.
                                                                                                                                                                                                                                                                                                                                         Example 5; Page 59; 86pp; English.
                                                                                                                                                                                      Pourmand
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                                                10-SEP-2001; 2001WO-GB004042.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 85.7%;
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                                                                                   18-SEP-2000; 2000GB-00022069
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                                                                                                                                                                                                                       WPI; 2002-393849/42
                                                                                                                                                                                                                                                                                                          incorporation.
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                                                                                                                                  (STRD )
(GARD/)
                                                                                                                   (PYRO-)
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The present invention relates to methods and oligonucleotides for forming a triple-helix comprising a double helical nucleic acid comprising first and second substantially complementary strands, and an oligonucleotide bound to a purine-rich trarget sequence within the double helical nucleic acid, where the oligonucleotide binds in a parallel and antiparallel contentation, respectively, to target sequences on alternate strands of the double helical nucleic acid. The method has therapeutic applications, where gene expression is controlled by selective triple-helix formation within expression regulatory sequences of a target gene. The oligonucleotides can be used to form triple-helices, and are useful to oligonucleotides can be used to form triple-helices, and are useful to oligonucleotides can be used to form triple-helices, and are useful to coligonucleotides can be used to pathogenic double-stranded DNA including specific sequences required by pathogenic double-stranded DNA including specific sequences required by pathogenic bacteria or viruses for the oligonucleotide can be used in cancer treatment by way of triple-helix suppression of specific oncogenes including those of endogenous or viral coligonucleotides are capable of forming triple-belics with such sequences in cancer used in the activated or origin. Such therapeutic oligonucleotides are capable of forming triple-belics with such sequences in cancerous cells containing the activated concogene, so preferentially killing or repressing the cancer causing cell. The present sequence represents an oligonucleotide used in the methods of the present invention
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/note= "C is covalently linked to Lys(Flu)-Lys(Flu) where
Flu= 5-(and 6)-carboxyfluoroescein, optional"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Probe; 23S rRNA; 16SrRNA; tuberculosis; MTC; MOTT; peptide nucleic acid; mycobacterium tuberculosis complex; precursor rRNA; rDNA; 5S rRNA; ss; mycobacterium other than tuberculosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 10 A; 0 C; 5 G; 0 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 M. tuberculosis 23S rRNA probe #23,
                                                                                                                                                                                                      Example 2; Col 24; 108pp; English.
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/mod_base= OTHER
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Best Local Similarity 85.7
Matches 12; Conservative
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modified_base
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The invention relates to a peptide nucleic acid capable of hybridising to a target sequence of Mycobacterial IDNA, precursor FRNA or FRNA (5S, 16S or 23S) forming detectable hybrids. Also included are detecting a target sequence of mycobacteria in a sample comprising contacting FRNA or FDNA in the sample with peptide nucleic acid probes (hybridisation takes place between the probe and the FRNA or FDNA), observing or measuring any formed detectable hybrids and relating the observation or measurement to the presence of a target sequence of mycobacteria in the sample, and a target sequence of mycobacteria in particular of probes are used for detecting a target sequence of MTC (and distinguishing them from mycobacterial network (mycobacterial sequence of mycobacterial sequence of the mycobacterial sequence of mycobacterial sequence of mycobacterial sequence of the mycobacterial o
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide nucleic acid probes for detecting target sequences of Mycobacteria in samples, e.g., sputum, which are capable of hybridizing to a target sequence of mycobacterial rDNA, precursor rRNA or rRNA
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Pred. No. 9e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Seguence 15 BP; 3 A; 7 C; 2 G; 3 T; 0 U; 0 Other;
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/note= "G is amidated"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 22; Page 38; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                Stender H, Lund K, Mollerup TA;
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                                                                                                                                                                                             07-APR-2000; 2000US-00544934.
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                                                                                                                                          07-APR-2000; 2000US-00544934
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              forming detectable hybrids
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                                                                                                                                                                                                                                                                                                MOLL/) MOLLERUP T A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-174116/17
                                                                                                                                                                                                                                                (STEN/) STENDER H.
                                                US2002137035-A1
                                                                                                                                                                                                                                                                             LUND K
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                                                                                                26-SEP-2002
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Gaps ..

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The present invention relates to a method for the transient immortalisation of cells by introducing immortalisation proteins into treme from the outside. The method is used to immortalise cells cells transiently to allow their expansion, particularly to produce transplant material for regenerating organs, for treating chronic (degenerative) diseases, e.g. in cases of cardiac infarct (with simultaneous reduction in the risk of congestive heart failure and future infarcts) or chronic bone degeneration (osteoporcsis), for regeneration of the liver, for treating Parkinson's disease (using dopaminrsgic cells) and for ex vivo production of heart and venous valves. The present sequence is a PCR primer used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Triplex DNA; internucleoside linkage; oligonucleotide-based diagnosis; triplex binding; absorption matrix; immobilised enzyme; process control; immunoassay reagent; pendant functionality; cation exchange agent; molecular sieve; textile; fibre; film; formed article; ss; polyfunctional surfactant; triplex affinity capture purification.
                                                                                                                                                                                                                                                Transient immortalization of cells, useful for preparing transplant material and for organ regeneration, by supplying immortalizing proteins
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity 85.7%; Pred. No. 9e+02; 1ndels 12; Conservative 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 BP; 3 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                      Kuhn A;
                                                                                                                                                                                     Meyer-Ficca M,
                                                                                                                                                                                                                                                                                                                  Example 5; Page 29; 59pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABX93419 standard; DNA; 15 BP.
                                                                                                                                                        (HEAR-) HEART BIOSYSTEMS GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21-NOV-2000; 2000US-00717422.
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97US-00906378.
                                                                                         07-OCT-2002; 2002WO-EP011200.
                                                                                                                         18-OCT-2001; 2001DE-01052972.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      867 CACTGAGGACTCAG 880
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                                                                                                                                                                                        Meyer R,
                                                                                                                                                                                                                     WPI; 2003-430421/40
                            WO2003035884-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US6495672-B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-AUG-1996;
05-AUG-1997;
 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Simi
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                                                            01-MAY-2003
                                                                                                                                                                                                                                                                                     externally.
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                                                                                                                                                                                      Kueper J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABX93419;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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(ISIS-) ISIS PHARM INC

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The invention describes an oligonucleotide compound with internucleoside linkages comprises at least one nucleoside. The compounds are used in oligonucleotide-based diagnosis to detect presence or absence of target gene sequences to which they specifically bind and separation through triplex binding. They are also useful as linkers or spacers in preparing absorption matrices, immobilised enzymes for process control or immunoasay reagents; as monomers to provide access to polymers having pendant functionalities; as cation exchange agents in the preparation of molecular sieves, textiles, fibres, films and formed articles; and as polyfunctional surfactants. The composition improves triplex affinity capture purification and enhances triplex binding. This sequence represents a novel oligonucleotide capable of binding to a polymucleotide duplex to form a triplex structure useful in diagnosis
                                                                                                                      New oligonucleotide compound with internucleoside linkages useful in oligonucleotide-based diagnosis comprises at least one nucleoside selected from 2-aminopyridine or 2-pyridone C-nucleosides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
                      Matteucci MD;
                                                                                                                                                                                                                               Example 7; Col 24; 17pp; English.
                      Gutierrez AJ,
                      Froehler BC,
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0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ive 0; Mismatches 2; Indels 0; 1016 AAAAAGAGGGGAG 1029 Conservative Similarity 12; Query Match Matches QQ ð

15 AAAAAGAGAGAGA 2

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Gaps ö

> ABV72560 standard; DNA; 15 BP (first entry) 12-FEB-2003 ABV72560; ABV72560, RESULT

Yeast, alcohol oxidase 1; AOX1; AOX2; promoter; formaldehyde; methanol; protein production; peroxisome biogenesis; ss. Consensus sequence of methanol regulated promoters of yeast.

Synthetic

17-0CT-2002

WO200281650-A2

05-APR-2002; 2002WO-US012851

05-APR-2001; 2001US-0281861P

(UYNE-) UNIV NEBRASKA

Benson AK; Inan M, Meagher MM,

WPI; 2003-058528/05.

Novel alcohol oxidase I regulatory nucleotide sequences useful for enhancing expression of genes of interest in a variety of host cells, especially yeast cells. enhancing

The present sequence represents a consensus sequence of methanol regulated promoters of methylotrophic yeast. The specification describes Disclosure; Fig 6; 66pp; English

The invention relates to a 2-aminopyridine C-nucleoside or 2-pyridone C-nucleoside compound, its salt, solvates, resolved enantiomers or purified distrements of formula detailed in the specification. Also included is an oligomer compound comprising a multiplicity of nucleosides linked by internucleoside linkages where at least one nucleoside is a modified nucleoside comprising a 2-aminopyridine C-nucleoside is a modified nucleoside, its salts, solvates, resolved enantiomers or purified diastereomers. The oligomer is useful for detecting the presence, absence or amount of a particular DNA duplex in a sample suspected of containing DNA. The method involves contacting the sample with the oligomer under conditions where a triple helix is formed between the oligomer and the and 1 5' useful for preparing oligonucleoside or 2-pyridone C-nucleoside compound specific DNA duplexes in samples. The AOX1 5' regulatory sequences within the alcohol oxidase 1 (AOX1) promoter region. AOX1 catalyses the oxidation of methanol to formaldehyde. The AOX1 promoter is an inducible promoter, primarily induced by methanol starvation, and repressed in response to glucose and ethanol. The AOX1 regulatory sequences can be used to produce expression cassettes and vectors, which are useful for protein production. The regulatory sequences are useful to increase expression of genes of interest in a versiety of host cells, in a research setting to further characterize promoter function and to study peroxisome biogenesis. They are also Gaps ö 2-pyridone Conucleoside, triple halix, cation exchange molecular sieve; textile; fibre; film; formed article; polyfunctional surfactant; phase transfer agent; phase transfer catalysis; liquid/liquid ion extraction; optically active material; affinity absorption matrix; immobilised enzyme; immunoassav reason 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; ive 0; Mismatches 2; Indels Sequence 15 BP; 1 A; 6 C; 3 G; 5 T; 0 U; 0 Other; DNase footprint target sequence, Select II. Gutierrez AJ, Matteucci MD; Example 7; Col 23; 18pp; English. ABX16338 standard; DNA; 15 BP 96US-0023241P. 728 GCCAGGAGAACAG 741 (first entry) 15 GCCAGGATAGACAG 2 12; Conservative (ISIS-) ISIS PHARM INC WPI; 2003-196641/19. Local Similarity useful as probes US6447998-B1. 05-AUG-1997; 09-AUG-1996; Froehler BC, 24-APR-2003 10-SEP-2002. Synthetic. ABX16338; Query Match RESULT 1739 Matches ABX16338/ ID ABX1 88888888888888 à

05-AUG-1997;

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particular DNA duplex . The 2-aminopyridine C-nucleoside or 2-pyridone C-nucleoside compound is useful for preparing oligonucleotides which are useful in oligonucleotide-based diagnosis and separation through triplex binding, as monomers to provide access to polymers having unique pendent functionalities, as comonomers with monomers, for preparation of molecular sleves, textiles, films, and formed articles), as polyfunctional surfactants, as phase transfer agents, in the preparation of molecular sleves, textiles, films, and formed articles), as polyfunctional surfactants, as phase transfer agents, in the synthesis or resolution of other optically active materials, and as linkers or spacers in preparing affinity absorption matrices, immobilised enzymes for process control, or immunoassay reagents. The present sequence is a target sequence (contained in a 370bp restriction fragment) for modified oligonucleotides containing 2-aminopyridine C-nucleoside or 2-pyridone C-nucleosides, used in a DNase footprint assay
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                                                                                                                                                                                                                                                                                                                                     0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNase footprint; ss; probe; 2-aminopyridine C-nucleoside; 2-pyridone C-nucleoside; triple helix; cation exchange agent; molecular sieve; textile; fibre; film; formed article; polyfunctional surfactant; phase transfer agent; phase transfer agent; optically active material; affinity absorption matrix;
                                                                                                                                                                                                                                                                                              0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                    Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
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/mod_base= m3c
/note= "5-methylcytosine"
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mod_base= m3c
'note= "5-methylcytosine"
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/mod_base= m3c
/note= "5-methylcytosine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNase footprint control probe sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  immobilised enzyme; immunoassay reagent
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/mod_base= m3c
"s-methy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3339/c
ABX16339 standard; DNA; 15
                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 85.7%
Matches 12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABX16339;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 1740
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The invention relates to a 2-aminopyridine C-nucleoside or 2-pyridone C-
concleoside compound, its salt, solvates, resolved enantiomers or purified
confastereomers of formula detailed in the specification. Also included is
concleoside included is
concleoside comprising a multiplicity of nucleosides linked by
internucleoside linkages where at least one nucleoside or 2-pyridone C-
concleoside (omprising a 2-aminopyridine C-nucleoside or 2-pyridone C-
mucleoside, its salts, solvates, resolved enantiomers or purified
diastereomers. The oligomer is useful for detecting the presence, absence
conditions where a triple helix is formed between the oligomer under
conditions where a triple helix is formed between the oligomer under
conditions where a triple helix is formed between the oligomer under
conditions where a triple helix is formed between the oligomer under
conditions where a triple helix is formed between the oligomer and the
particular DNA duplex. The 2-aminopyridine C-nucleoside or 2-pyridone C-
conditions who particular based diagnosis and separation through triplex
binding, as monomers to provide access to polymers having unique pendent
cuseful in oligomucleotide-based diagnosis and separation of
functional ities, as componers with monomers, for preparation of
functional surfactants, as phase transfer agents, in phase transfer
catalysis and liquid/liquid ion extraction, in the synthesis or
catalysis and liquid/liquid ion extraction, in the synthesis or
process control, or immunoasay reagents. The present sequence is a
control probe sequence containing modified nucleotides, used in a DNase
control probe sequence containing modified nucleotides, used in a DNase
control energy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                      Novel 2-aminopyridine C-nucleoside or 2-pyridone C-nucleoside compound useful for preparing oligonucleotides which are used for detecting specific DNA duplexes in samples.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 0.5%; Score 10.8; DB 1; Length 15; Best Local Similarity 85.7%; Pred. No. 9e+02; Matches 12; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15 BP; 0 A; 5 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                      Gutierrez AJ, Matteucci MD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNase footprint probe sequence #4.
                                                                                                                                                                                                                                                                                                                 Example 7; Col 24; 18pp; English.
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97US-00906378
                                           96US-0023241P
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                                                                                         (ISIS-) ISIS PHARM INC
                                                                                                                                                                                  WPI; 2003-196641/19.
                                                                                                                                 Froehler BC,
                                             9-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-APR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nvention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 1741
ABX16343/c
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schultz451-1.rng

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The invention relates to a 2-aminopyridine C-nucleoside or 2-pyridone C-nucleoside compound, its salt, solvates, resolved enantiomers or purified diastersomers of formula detailed in the specification. Also included is an oligomer compound comprising a multiplicity of nucleosides linked by incleoside linkages where at least one nucleoside is a modified nucleoside, its salts, solvates, resolved enantiomers or purified diastersomers. The oligomer is useful for detecting the presence, absence or amount of a particular DNA duplex in a sample suspected of containing or amount of a particular DNA duplex in a sample with the oligomer under compations where a triple helix is formed between the oligomer under particular DNA duplex in a sample with the oligomer under containing as monomers to provide access to polymers having unique pendent functionalities, as comenomers with monomers, for preparing polymers binding, as monomers to provide access to polymers having unique pendent functional surfacentie, subsection of molecular sleves, textiles, fibres, films, and formed articles, as comenomers with monomers, for preparing polymers of polyfunctional surfacents, as phase transfer agents in the preparing polymers of the preparing affinity as phase transfer agents in the symbase transfer catalysis and liquid/liquid ion extraction, in the symbasis or resolution of other optically active materials, and as linkers or spacers in preparing affinity absorption matrices, in members a probe property property or immunoassay reagents. The present sequence is a probe acquence containing RNA nucleoides, used in a DNase footprint assay,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ô
                                                                                                                                                                                                                                                                                                                                                                                                                Novel 2-aminopyridine C-nucleoside or 2-pyridone C-nucleoside compound useful for preparing oligonucleotides which are used for detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 which demonstrates to use of the oligomers of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.5%; Score 10.8; DB 1; Length 15;
85.7%; Pred. No. 9e+02;
tive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 BP; 0 A; 5 C; 0 G; 5 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                Gutierrez AJ, Matteucci MD;
              Location/Qualifiers
11. .15
                                                                                                                                                                                                                                                                                                                                                                                                                                                               specific DNA duplexes in samples.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 7; Col 24; 18pp; English.
                                                                                                                                                                                               97US-00906378.
                                                                                                                                                                                                                                           96US-0023241P.
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                                                            /*tag= a
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                                                                                                                                                                                                                                                                                     (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                            WPI; 2003-196641/19.
                                                                                                                                                                                                                                                                                                                                Froehler BC,
                                                                                                                                                                                             05-AUG-1997;
                                                                                                          US6447998-B1
                                                                                                                                                      10-SEP-2002,
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                                      misc_RNA
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HBV enzymatic nucleic acid substrate sequence #63.
                                                                                     ACD56140 standard; RNA; 15 BP.
                                                                                                                           (first entry)
                                    15 AAAAAGAGAGAG 2
                                                                                                                          23-SEP-2003
                                                                 RESULT 1742
ACD56140
Matches
                                    쉱
                                                                                     ZXEXEXEX
ZXEXEXEX
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Nucleic acid molecule, Hepatitis C virus, HCV, Hepatitis B virus, HBV;

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The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HCV) or Hepatitis B virus (HCV) or And encourage include antisense and enzymatic nucleic acids such as harmerhead ribozymes, DNAzymes, inozymes, zinzymes, amberzymes, and G-cleaver ribozymes, Also disclosed are nucleic acid decory molecules and apramers that bind to HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV genes and/or HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds compounds of the invention and/or replication of HCV. The compounds disease states related to HBV and HCV infection, replication and gene actions and active and HBV and HCV infection, replication and gene actions. The present sequence represente a substrate for one of the HBV enzymatic nucleic acid sequence alsolved in the present invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel compound useful for treating cirrhosis, liver failure, hepatocellular carcinoma, or condition associated with hepatitis C virus
RNA stability, RNA expression, RNA synthesis, antisense, enzymatic nucleic acid, hammerhead ribozyme, MNAzyme, inozyme, inozyme, amberzyme, G-cleaver ribozyme, decoy molecule, aptemer, HBV reverse transcriptase, Enhancer I region, viral replication, degenerative, disease state, HBV infection, HCV infection, cirrhosis, liver failure, hepatocellular carcinoma, hepatotropic, cytostatic; virucide, antiinflammatory, substrate, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mcswiggen J, Morrissey D, Pavco P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 BP; 2 A; 5 C; 1 G; 0 T; 7 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 213; 387pp; English.
                                                                                                                                                                                                                                                                                    26-WAR-2001; 2001US-00817879.
08-UUN-2001; 2001US-00877478.
08-UUN-2001; 2001US-0296876P.
24-OCT-2001; 2001US-0335059P.
05-DEC-2001; 2001US-0337055P.
                                                                                                                                                                                                                                                   26-MAR-2002; 2002WO-US009187
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                                                                                                                                                                                                                                                                                                                                                                                           RIBOZYME PHARM INC.
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MCSWIGGEN J.
MORRISSEY D.
PAVCO P.
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DRAPER K.
ROBERTS E.
                                                                                                                                           Hepatitis B virus.
                                                                                                                                                                                WO200281494-A1.
                                                                                                                                                                                                                   17-0CT-2002.
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Draper K,
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(DRAP/)
(ROBE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAVC/)
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Typing at least two variable sites of at least one nucleic acid molecule related to cystic fibrosis by simultaneously or sequentially performing primer extension reactions and determining the pattern of nucleotide
                                          typing, variable site; cystic fibrosis; human; cystic fibrosis transmembrane conductance regulator; CFTR;
               Human CFTR related oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                     Example 6; Fig 3; 69pp; English.
                                                                                                                                                                                             07-MAR-2003; 2003WO-SE000394.
                                                                                                                                                                                                                        07-MAR-2002; 2002SE-00000695.
                                                                                                                                                                                                                                                     (PYRO-) PYROSEQUENCING
                                                                                                                                                                                                                                                                                                               WPI; 2003-731684/69.
                                                                                                                                  WO2003074737-A1.
                                                                                                                                                                                                                                                                                                                                                                                         incorporation.
                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                 Schiller A,
                                                                                                                                                               12-SEP-2003
                                                                                       Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention describes a method of determining presence or absence of a desired nucleic acid (NA) that contains multiple repeats of a predetermined NA target sequence in a NA sample. The method involves providing a treated sample that may contain the desired NA in which several predetermined repeating NA target sequences are hybridised with a contain providing a treated sample that may contain the desired NA. The method containing the NA probe, and thereby the presence of absence of the desired NA. The method is useful for determining the presence or absence of desired nucleic acids that contain multiple repeats of a predetermined NA target sequence, in a NA sample obtained from a biological sample, where the repeated sequence innultiple several predetermined repeated sequence that confirming human and bacterial NA. The method is highly sensitive, and enables detection and quantification of the presence of a NA without the need to undergo a NA target sequence enrichment step prior to a NA hybrid detection step. The method enables rapid and accurate detection of a desired NA that contains multiple repeats of a NA target sequence. This detection of a desired NA that contains multiple repeats of a NA target sequence. The sequence represents a probe used to detect the human Alu repeat sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                Determining presence or absence of desired nucleic acids that contain multiple repeats of predetermined nucleic acid target sequences in a sample, by using nucleic acid hybridization methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 7ative 0; Mismatches 2; Indels
                                                                                                    Repeated nucleic acid detection method, human probe Alul.
                                                                                                                                Repeated nucleic acid detection; human; alu; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15 BP; 5 A; 6 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                         Shultz JW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Page 27; 31pp; English.
              ACA62875 standard; DNA; 15 BP
                                                                                                                                                                                                                                                                                 99US-00358972.
                                                                                                                                                                                                                                                     5-DEC-2000; 2000US-00739909.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1249 GACCCCATCCCCAA 1262
                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                       Mandrekar MN, Tereba A,
                                                                                                                                                                                                                                                                                                                            (MAND/) MANDREKAR M N. (TERE/) TEREBA A. (SHUL/) SHULTZ J W.
                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-479484/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                           US2003022163-A1.
                                                                                                                                                                                                                                                                                 21-JUL-1999;
25-AUG-1999;
                                                                                                                                                               Homo sapiens.
                                                                      21-AUG-2003
                                                                                                                                                                                                                        30-JAN-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12;
                                            ACA62875;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
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ACA62875
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Dunker J;

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The present invention describes a method for typing at least two variable sites of at least one nucleic acid molecule related to cystic fibrosis.

The method comprises: (a) providing at least one extension of agene related to cystic fibrosis; (b) providing at least one extension primer, which binds to different predetermined sites in the nucleic acid molecule of at least two potential variable sites in the nucleic acid molecule, and nucleotide; (c) simultaneously or sequentially performing primer at least two potential variable sites in the nucleotide, and nucleotide; (c) simultaneously or sequentially performing primer cartension reactions; and (d) determining the pattern of nucleotide conforming the pattern of step (c) with one or more reference pattern of nucleotide pattern of step (c) with one or more reference patterns, in order to type the variable sites of the nucleic acid molecules. Also described: (1) pattern of step (c) with one or more reference described: (1) response related to the human cystic fibrosis transmembrane conductance response related to the human cystic fibrosis transmembrane conductance comparising at least one extension primer. The method is useful for typing comprising at least one extension primer. The method is useful for typing the least two variable sites of at least one nucleic acid molecule related to cystic fibrosis. The present sequence represents an oligonucleoride which is used in the exemplification of the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 BP; 2 A; 1 C; 3 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human CFTR related oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADC66180 standard; DNA; 15 BP.
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Best Local Similarity 85.7
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-DEC-2003
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ID ADC6
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ADC66181 standard; DNA; 15

RESULT 1744

ADC66181

(first entry)

18-DEC-2003

ADC66181;

SXXXX

2 GACCCCATCTCTAN 15

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Typing at least two variable sites of at least one nucleic acid molecule related to cystic fibrosis by simultaneously or sequentially performing primer extension reactions and determining the pattern of nucleotide incorporation.
                                                                                                                                                                Example 6; Fig 3; 69pp; English
                                                       07-MAR-2003; 2003WO-SE000394.
                                                                      07-MAR-2002; 2002SE-00000695.
                                                                                    (PYRO-) PYROSEQUENCING AB
                                                                                                  Schiller A, Dunker J;
                                                                                                                WPI; 2003-731684/69.
                           WO2003074737-A1.
       Synthetic.
Homo sapiens.
                                         12-SEP-2003.
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The present invention describes a method for typing at least two variable sites of at least one nucleic acid molecule related to cystic fibrosis. The method comprises: (a) providing at least one nucleic acid molecule of a gene related to cystic fibrosis; (b) providing at least one extension primer, which binds to different predetermined sites in the nucleic acid molecules, where at least one extension primer is designed to extend over at least two potential variable sites in the nucleic acid molecule, and nucleotide; (c) simultaneously or sequentially performing primer extension reactions; and (d) determining the pattern of nucleotide incorporation to obtain a test pattern; optionally (e) comparing the test pattern of step (c) with one or more reference patterns, in order to type the variable sites of the incleic acid molecules. Also described: (1) diagnosing the genetic predisposition of states, diseases and drug response related to the human cystic fibrosis transmembrane conductance regulator (CFTR) gene, and (2) a kit for use in the method for typing comprising at least one extension primer. The method is useful for typing at least two variable sites of at least one nucleic acid molecule related to cystic fibrosis. The present sequence represents an oligonucleotide which is used in the exemplification of the present invention.

Seguence 15 BP; 2 A; 1 C; 3 G; 9 T; 0 U; 0 Other;

Gaps 0 0.5%; Score 10.8; DB 1; Length 15; 85.7%; Pred. No. 9e+02; 1tive 0; Mismatches 2; Indels Query Match Best Local Similarity 85.73 Matches 12; Conservative

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Search completed: March 1, 2004, 15:22:42 Job time : 43 secs